DOCUMENT RESUME

ED 182 351 TM 800 092

TITLE	Ohio Educational Assessment Program. Technical Report 1978.
INSTITUTION	Ohio State Dept. of Education, Columbus. Div. of Research, Planning, and Evaluation.
SPONS AGENCY	Office of Education (DHEW), Washington, D.C.; Ohio State General Assembly, Columbus.
PUB DATE	78
NOTE	565p.; Some tables may be marginally legible
EDRS PRICE	MF02/PC23 Plus Postage.
DESCRIPTORS	Achievement Tests; Composition (Literary); *Educational Assessment; Educational Objectives; Elementary Secondary Education; Expectation; Grade 4; Grade 12; Mathematics; *Minimum Competency Testing; Racial Differences; Sciences; Sex Differences; Social Differences; *State Programs; *State Standards; Student Characteristics; Test Construction; *Testing Programs; *Test Results
IDENTIFIERS	*Ohio

ABSTRACT

Ohio's Educational Assessment Program is briefly described, and extensive tables present the 1978 test results. The sampling design, test development, and setting of performance expectancy levels are discussed. Results are reported for the total test and for each objective. Comparisons between the average predicted, minimally acceptable, and desired performance level with actual performance are also presented for each objective. Total test scores are reported by sex, race, community size, socioeconomic status, and race by socioeconomic status. About 3,000 students participated. Major findings include: (1) In fourth grade mathematics, actual performance exceeded minimum expected performance on 27 of 31 objectives, exceeded predicted performance on 25 objectives, and exceeded desired performance on 9 objectives; (2) In twelfth grade mathematics, performance exceeded the minimum for 35 of 41 objectives, exceeded predicted for 35, and exceeded desired on 10 objectives; (3) in twelfth grade science, performance exceeded the minimum on 29 of 37 objectives, exceeded predicted for 21, and exceeded desired for 4 objectives; and (4) in twelfth grade English composition, performance exceeded minimal levels on 3 of 5 objectives, exceeded predicted on 3 objectives, and exceeded desired on one objective. Test booklets and some answer sheets are appended. (Author/CP)

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CHAPTER I

INTRODUCTION

Background

During the spring of 1978, an Ohio Statewide Student Needs Assessment was conducted to identify learner strengths and weaknesses in four different areas. Samples of twelfth graders were administered tests in science, mathematics and English composition. Mathematics was also assessed at the fourth-grade level. This assessment was conducted in accordance with mandates contained in Section 3301.131 of the Ohio Revised Code. This report describes the administration and detailed results of this assessment.

Use of Results

The information generated by this assessment is intended to assist Ohio educators in: 1) the identification of student strengths and student learning needs; 2) making decisions regarding curriculum revision and/or emphasis; 3) indicating statewide needs that may be local district needs; and 4) directing the purposes of developmental or adoption projects toward areas identified as statewide need areas.

Overview of Report

The construction and administration of the tests used in this assessment and the sampling procedures used to select the students who participated in the study are described in Chapter II.

For each test, the student performance levels were compared with performance expectations provided by review panels of Ohio educators. The review panels provided an estimate of: (1) the *expected students' performance* levels; (2) the *minimum expected performance* level; and (3) the *desired performance* level. These estimates were provided for each test item; the procedures for their generation are given in Chapter III. These performance estimates provided benchmarks against which to compare the student performance.

The results of each test are presented in Chapter IV. The discussions in these chapters focus upon performance on each objective. The reader is referred to the attached appendices for detailed data on performance on individual objectives and items.

CHAPTER II

DESIGN AND METHODOLOGIES

This chapter will primarily discuss the structure of the tests used in this survey and the procedures used to select the students who participated in the assessment. In addition, the data analysis procedures will be discussed and guides for the interpretation of the results are provided.

Test Development

Initially, lists of what were thought to be the most important learning objectives for each subject and grade level involved were developed by Ohio Department of Education staff. The advice of an advisory committee of science education experts was enlisted in the formulation of the science objectives into four major areas of scientific literacy.

Objectives for each test were then reviewed and rated by statewide samples of classroom teachers and curriculum specialists in the respective subject areas. Objectives thought to be unimportant or inappropriate for the specified grade level were eliminated.

Items for each objective were written by a Department of Education staff person and consultants in each test area. Each item was also reviewed by a statewide sample of classroom teachers and subject matter specialists to insure that the items were:

- a direct measure of the objectives to be assessed;
- appropriate for the grade level;
- clearly written;
- free of sex, racial or cultural bias;
- related to situations or problems that students might encounter in everyday life.

The test instruments were field tested prior to the statewide testing to eliminate poorly constructed or inappropriate items and to determine that most students could complete the assessment within one hour and 15 minutes.

Sampling

The sampling design used in this study was developed by Research Triangle Institute (RTI) and the details of the design are given in the final report of RTI project number 9689/00-00F: *Sample Design and Selection of Schools for the 1978*

Ohio Assessment of Educational Progress for Fourth and Twelfth-Grade Students. A summary of the sampling procedures specified in the report is provided here.

A two-stage stratified cluster design was used to select four samples of approximately 3000 eligible students each. One sample of 3000 fourth graders was selected for testing in mathematics. Three separate samples of 3000 twelfth-graders were selected for testing in science, mathematics and English composition. Each of these three samples was selected in such a way that no students would take more than one examination.

In the first stage of sample selection, a total of 152 schools was selected for each of the four student samples. The schools were selected from a pool of all schools, public and private, within each of the two grade levels assessed. The eligible schools were stratified on the basis of community size, percent of minority enrollment, percent of students in low income families, and the number of eligible students. Within each stratum, schools were selected with equal probability and without replacement.

After schools were selected, 20 students in each school were selected for testing. The probability of selecting any given student was the probability of the selection of the individual's school multiplied by the probability of the selection of the student within the school. The three twelfth-grade school samples were selected independently so that a school could be selected for more than one twelfth-grade sample. Again, however, each twelfth-grade student completed only one examination. The sampling procedures provided samples that were representative of the true population with a confidence level of $p = .05$. That is, with 95% certainty the estimated intervals of performance derived from the samples would span the true population values.

Some characteristics of the actual samples tests were gleaned from a set of questions included on each answer sheet. A summary of the responses to these questions is presented in Appendix F.

Test Administration

After the selection of the student samples, the examinations were administered during the spring of 1978. The test format was designed to be easily understood and took the form of an 8½" x 11" booklet. The tests were administered during a single session lasting from 40-75 minutes.

Data Analysis

Before the actual data analyses began, the examination items were checked, scored, and then keypunched. These procedures ensured accurate data entry for the analysis.

CHECKING DATA. Checking data involved reviewing each answer sheet of each examination. A variety of different types of errors were identified and corrected before proceeding to the next step. These included unclear erasures, random marks, blank answer sheets and incorrect coding of school information code number.

CODING DATA. An individual identification number was coded onto each answer sheet so that during later stages of data processing matching of the processed responses with the original source document could be done.

A team of English composition teachers and graduate students hand scored all responses to the open-ended essay items using criteria which were expressed as values on a 1 to 5 point scale for each criterion. A complete discussion of this scoring procedure is given in Chapter IV of this report.

The responses for each student were then keypunched and verified. All response data on the data files were entered in raw score form and were transformed where appropriate, including proper weighting of scores to provide estimates of the population performance levels from sample data.

DATA ANALYSES. The major purpose of the analysis plan was to help ensure that the assessment results and reports provided information which could be interpreted and utilized by Ohio educators in determining critical needs and improving the educational system. The outcome of the analysis plan was a comprehensive description of the students' performance on each examination.

The basic data generated for result reporting are given in percentages. These include: (1) the percentage of items answered correctly on each examination; (2) the percentage of items answered correctly by each reporting group; (3) the percentage of items answered correctly in each major dimension (science only); (4) the percentage of the items for each objective answered correctly; and (5) the percentage of students answering each item correctly. The chapter discussions will focus upon objective performance. Performance levels for each item can be found in Appendix B.

Data Interpretation

Some of the data analyses conducted for this study involved tests of statistical significance on differences between scores of two separate groups of students. For example, in Chapter IV, comparisons are made between the achievement of each reporting group and the achievement level for all students. All these comparisons include information on whether or not the difference in scores between respective groups was statistically significant. The reader must bear in mind that assertions of statistical significance are statements based on probability assumptions.

The percent correct reported for the state as a whole and for the individual reporting groups are estimates based on probability samples and, as such, have standard errors associated with them. The reported differences in performance between a given group and the state average (effects) are also estimates and have associated standard errors. The standard error of an effect depends on the size of the two samples, the percent of each group answering the item correctly, and other stratification and clustering effects.

The differences presented in this report are those which were statistically significant at or beyond the .05 level of confidence. This means that a difference of the given magnitude could be expected to occur in repeated samplings only five times in 100 if, in fact, there were no differences between groups. While these results very likely reflect the actual performance differences between groups, they should not be used to infer the causes of these differences. For example, it may be shown that students who live in a particular type of community perform above the state average but this does NOT imply that the community setting CAUSES higher performance.

It should be noted that some rather large effects are occasionally not statistically significant, while some rather small effects are in some instances significant. This is due to the fact that statistical significance is determined by the ratio of the effect to its standard error. For this reason, the reader should exercise caution in interpreting statistically significant differences. Statistical significance should not be equated with practical importance or educational meaningfulness. Just as acceptable levels of performance must be judged on the basis of educational expectations, the magnitude of differences observed between groups should similarly be judged not only on the basis of statistical significance but also on the basis of educational meaningfulness.

The variables used in reporting the results were established by the Statewide Assessment and Annual Progress Report Advisory Committee pursuant to Section 3301.131 of the Ohio Revised Code. It was considered that the selected variables, should they prove to bear a relationship to student achievement, would contribute important information to state and local-level decision-makers in setting policy for the educational delivery system.

REPORTING GROUPS. During the sampling process, schools were first selected and then 20 students were selected at each school. In order to select the schools, all schools within the state were divided into strata before selection. The variables used to stratify the schools were: (1) size of community; (2) percent minority; (3) percent low income; and (4) number of eligibles. Schools were finally selected from each of these strata in proportion to the number of students in each strata.

Ideally, from a statistical viewpoint, schools whose pupils' achievements are nearly identical should be grouped in the same strata. Practically, stratification variables are selected which are thought to produce homogeneous strata. Stratification has the effect of improving the precision of estimated group achievement levels, by decreasing the sample error, and ensures a representative spread of the sample across the range of values of the stratification variables.

In the reporting chapter that follows, the achievement levels of each of the following reporting groups will be given and compared with the overall average achievement level: (1) sex; (2) race; (3) size of community; and (4) socioeconomic status.

SOCIOECONOMIC STATUS. Information provided by each student on his parents' educations and occupations was used to compute an index of socioeconomic status. Previous years' analysis of similar data indicated that the parents' education levels are only slightly more highly correlated with student achievement levels than are the parents' occupations. Hence, in the computation of the students' socioeconomic status value, the fathers' education (FE) and the mother's education (ME) were weighted equally with father's and mother's occupation (FO and MO, respectively). The following formula was used to compute the socioeconomic status (SES) level value:

$$SES = \frac{FE + ME + FO + MO}{6 + 6 + 5 + 5}$$

The values given to FE and ME were as follows:

1 = did not complete eighth grade
2 = completed eighth grade but did not go to high school
3 = went to high school but did not graduate
4 = graduated from high school
5 = some education after high school
6 = graduated from college

The values used for FO and MO were as follows:

1 = semi-skilled
2 = skilled craftsman
3 = office or sales
4 = professional
5 = manager or owner

If any of the values for a student were missing (which was often the case), then only the valid data were used. For example, if FE and MO were missing for a student, then SES = (ME + FO) ÷ (6 + 5). This allowed each student to be assigned an SES value ranging from approximately 0.2 to 1.0. Students for which all SES data were missing received an index score of zero and were not included in any of the analyses involving socioeconomic status classifications. The number of students receiving zero index scores for each test were 16 (twelfth-grade science), 42 (twelfth-grade English), 18 (twelfth-grade mathematics) and 211 (fourth-grade mathematics). After an SES value had been computed for each student, a frequency distribution of non-zero SES index scores was constructed for each of the four assessment groups. For each distribution, the lower one-third of the students were classified as "low socioeconomic status" while the upper two-thirds were classified as "non-low socioeconomic status."

The inaccuracy of student and teacher reporting of parent education and occupation data, the vagueness of the occupational status categories presented on the answer sheets, and the inability of two limited questions to adequately provide all the data needed to classify students into socioeconomic status categories are all constraints that could affect the accuracy of the results. These caveats should be kept in mind when reviewing the results reported for any group involving socioeconomic status as a classification variable. The actual effect of these limitations is unknown.

CHAPTER III

PERFORMANCE ESTIMATES

To provide a framework within which to assess student performance in Ohio, a group of people, consisting of teachers in or subject matter specials associated with each school selected to administer assessment tests were asked to provide three types of performance standards for each test item in the assessment (except the open-ended English composition items). This group was felt to be fairly representative of the state since each person was from a school which was selected for testing through a sophisticated sampling procedure. There were about 140 reviewers for each test. Separate groups reviewed the items for each test and provided each test item with: (1) a *Minimal Acceptable Outcome;* (2) a *Desired Outcome;* and (3) a *Predicted Outcome.*

An example of what the panels were given to use when assigning these outcomes is the following set of guidelines for fourth-grade mathematics.

(1) *Minimal Acceptable Outcome.* The minimal acceptable outcome is defined as the percentage of Ohio fourth graders you believe *must* be able to correctly respond to the item for you to consider mathematics instruction to be meeting the *minimal* needs of our students. In making your decision on minimal acceptable performance, you will want to consider: (1) the importance of the skill being measured by the item; (2) the intrinsic difficulty of the item itself. If the actual student performance on the item falls below the percentage figure you select, then you would consider present instruction in that skill area to be unacceptable.

(2) *Desired Outcome.* This level is defined as the percentage of Ohio fourth graders who could be expected to correctly respond to the item if mathematics instruction were *optimal* for our students. Again, you should review both the importance of the skill being measured as well as the difficulty of the exercise. The desired outcome could be viewed in this way: If the percent of Ohio fourth graders correctly responding to the item was above the percentage level you selected, you would feel rather satisfied about the instruction of the skill measured by that item. Looking at it from another viewpoint, if you had a child who did this well, as a parent you would be satisfied with both the teacher and the school program.

(3) *Predicted Outcome.* This is the percent of Ohio fourth graders you believe *will actually* respond correctly to the item. To determine predicted outcome, most people will want to carefully consider the

level of mathematics instruction in the state as they perceive it based upon their unique experiences and background. This is simply a straightforward estimate of what you expect the students to be able to do based upon your best knowledge of what is happening in Ohio fourth-grade classrooms.

Procedures

For each test item, the panel was given a review form, see below, and told to place an "X" in the box representing their estimate of each percent, to the nearest 10% level.

PERCENT	10	20	30	40	50	60	70	80	90	100
Minimal	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐
Desired	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐
Predicted	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐

Results of Reviews

As a first step in summarizing these review data, an average rating was computed for each of the three performance standards assigned to each item. For example, a given item might have had an average (across reviewers) Minimal Acceptable Outcome of 60%, an average Desired Outcome of 90%, and an average Predicted Outcome of 80%. These average ratings for each item have been included in Appendix C.

Once the three average ratings had been computed for each item, the averages for objectives and major dimensions (science only) were computed. The data for the objectives have been presented and discussed in the reporting chapter which follows.

CHAPTER IV

OBJECTIVES AND RESULTS

Interpretation of Results

Various types of analyses were made of the test results. Some of the analyses are reported in this chapter while more detailed analyses and item level analyses are reported in the appendices.

In particular, the narrative and tables in this chapter include results for the four assessments in the following areas:

- Listing of all objectives with numbers of test items used to assess each objective;
- Average percent correct for all students for each objective;
- Comparisons of the average predicted, minimally acceptable and desired performance levels with actual performance for each objective; and
- Average percent correct on the total test by reporting groups.

Inferences made from the following results should take into consideration the test construction, sample design, data analysis contraints and the effects of anonymity on the motivation of students taking these tests.

FOURTH-GRADE MATHEMATICS

OBJECTIVES

OBJECTIVE	ITEM NUMBER(S)
1. The student will be able to add two or more whole numbers *(two 3-digit addends with two renamings).	1, 2, 3
2. The student will be able to subtract two whole numbers (3-digit minuend and subtrahend with two renamings).	4, 5, 6
3. The student will be able to multiply two whole numbers (3-digit multiplicand and 1-digit multiplier without renaming).	7, 8, 9
4. The student will be able to divide whole numbers (3-digit dividend by 1-digit divisor with no remainder, without renaming).	10, 11, 12
5. The student will be able to recognize a numeral for the number of objects in a set of no more than (1,000) objects.	13
6. The student will be able to arrange five whole numbers less than (1,000) in order from highest to lowest or vice versa.	14, 58
7. The student will be able, using a given reference point, to identify the ordinal position of objects in a line.	15, 16
8. The student will be able to round a number (less than 1,000 to the nearer 10 or to the nearer 100).	17
9. The student will be able to add simple fractions (two proper fractions with like denominators no larger than 12 without simplification).	18, 19
10. The student will be able to subtract two fractions (two proper fractions having like denominators no larger than 12 without simplification).	20,21
11. The student will be able to identify the place value that a digit holds in a given number (up to and including four digits).	22, 32
12. Given a fraction, the student will be able to identify the shaded portion of a whole representing the fractional part.	23
13. The student will be able to identify a fraction shown by fractional parts of regions or sets which have been shaded into portions no smaller than tenths.	33
14. The student will be able to identify the simple geometric figures of a circle, triangle, rectangle or square.	24
15. The student will be able to express numbers in words or vice versa.	25, 38
16. The student will be able to select the appropriate metric unit for measuring the size or quantity of an object or material (from centimeters, meters, kilometers, milliliters, liters, grams, kilograms).	26, 39
17. The student will be able to select the appropriate English unit for measuring the size or quantity of an object or material (from ounces, pounds, tons, inches, feet, miles, cups, pints, quarts, gallons).	27, 46
18. The student will be able to determine length, width or height of an object by reading the correct measurement from a ruler already placed in the correct position.	28, 42
19. The student will be able to indicate correctly the meanings of the following mathematics symbols: $=, \neq, >, <$.	29, 45
20. The student will be able to tell time on the hour, half-hour and quarter-hour by reading a pictorial representation of a clock.	30, 41
21. The student will be able to state the value of a given set of common U.S. currency or coins.	31, 44
22. The student will be able to select the correct combination of U.S. coins that would be the exact amount for the purchase of an item costing less than one dollar.	34

Objectives (continued)

OBJECTIVES	ITEM NUMBER(S)
23. The student will be able to determine the change to be received from a one-dollar bill after the purchase of an item.	35, 40
24. The student will be able to solve simple one-step word problems involving whole numbers and the four arithmetic operations.	36, 37
25. The student will be able to solve simple equations involving addition, subtraction, multiplication or division.	43, 47
26. The student will be able to select the next number when given the first few elements from a number pattern.	48
27. The student will be able to answer problems dealing with reading or understanding the use of a calendar.	49, 52
28. The student will be able to add two numbers expressed in monetary values (two 2-digit addends with two renamings).	50, 51
29. The student will be able to subtract decimals expressed in monetary values (3-digit minuend and 2-digit subtrahend with two renamings).	53, 54
30. The student will be able to recognize that the order in which two or more numbers are added (multiplied) does not change the sum (product).	55
31. The student will be able to use simple reasoning to answer a practical question.	56, 57

*Parenthesis indicate the maximum degree of difficulty of the test item to satisfy the objective.

RESULTS

The fourth-grade mathematics test consisted of 58 test items covering the 31 objectives listed on page 10. A total of 3253 students completed the test, and they answered an average of 72.6% of the items correctly.

Table A.1 displays student performance on each objective. The table reports the average percentage of correct responses for the number of items measuring each objective.

The students did extremely well on Objective 1 "Adding whole numbers" (92.8%); Objective 5 "Recognizing a numeral for the number of objects in a set" (91.5%); Objective 15 "Expressing numbers in words and vice versa" (91.1%); and Objective 21 "Stating the value of a given set of common currency or coins" (91.5%). Students performed poorly on Objective 8 "Rounding numbers" (49.4%); Objective 9 "Adding simple fractions" (47.7%); Objective 16 "Selecting the appropriate metric unit for measurement" (44.9%); and Objective 31 "Using simple reasoning to answer a practical question" (39.2%).

Table A.2 presents the average total test scores in terms of the average percentage of items answered correctly for each of the mandated reporting groups. The results in Table A.2 show that females scored higher than males, and whites scored higher than minorities. Students in suburban schools scored highest followed in descending order by rural local, other city/exempted village and large city schools. Non-low socioeconomic status students scored higher than low socioeconomic status students, and students classified as white non-low socioeconomic status scored highest followed in descending order by white-low, minority non-low and minority-low socioeconomic status students. Limitations of the testing program in obtaining accurate socioeconomic measures may have influenced the results involving race by socioeconomic status categories.

The results in A.3 compare the students' actual performance for each objective with the minimum, desired and predicted performance expectancy levels set by a statewide panel of reviewers, including fourth-grade mathematics teachers. Reviewers actually set expectancy levels for each item. The expectancy levels for all items representing each objective were then averaged to obtain the expectancy levels for each objective shown in Table A.3.

As shown in Table A.3, students' actual performance exceeded reviewers' minimum expected performance for 27 objectives; exceeded reviewers' predicted performance for 25 objectives; and exceeded reviewers' desired performance on 9 objectives.

TABLE A.1

STUDENT PERFORMANCE BY OBJECTIVE: FOURTH-GRADE MATHEMATICS

Objective Number*	Number of Items	Average Percentage Correct
1	3	92.8
2	3	71.7
3	3	88.6
4	3	72.4
5	1	91.5
6	2	66.7
7	2	89.5
8	1	49.4
9	2	47.7
10	2	57.1
11	2	78.6
12	1	80.7
13	1	68.3
14	1	78.5
15	2	91.1
16	2	44.9
17	2	85.3
18	2	57.0
19	2	69.1
20	2	59.0
21	2	91.5
22	1	87.3
23	2	66.4
24	2	71.4
25	2	88.4
26	1	85.5
27	2	83.4
28	2	84.5
29	2	61.2
30	1	69.8
31	2	39.2

*See page 10 for objective statements.

TABLE A.2

TOTAL TEST PERFORMANCE BY REPORTING GROUPS: FOURTH-GRADE MATHEMATICS

(Average Percentage Correct)

Reporting Group	Total Test
ALL STUDENTS	72.60
SEX	
Male	71.64
Female	74.60
RACE	
Minorities	61.54
Whites	74.93
COMMUNITY SIZE*	
1. Large city	67.28
2. Suburban	75.99
3. OC/EV	72.83
4. Rural local	73.48
SOCIOECONOMIC STATUS	
Low	67.13
Non-Low	75.82
RACE BY SOCIOECONOMIC STATUS	
Minority-Low	59.21
Minority-Non-Low	63.69
White-Low	69.48
White-Non-Low	77.39

* 1. Eight major city school districts.
2. Suburban school districts within the metropolitan areas of the major cities.
3. OC/EV = Other City/Exempted Villages: (Small or middle-sized city and exempted village districts away from the eight major cities).
4. Rural, local school districts away from the eight major cities.

TABLE A.3

PERFORMANCE ESTIMATES BY OBJECTIVES: COMPARED WITH ACTUAL PERFORMANCE: FOURTH-GRADE MATHEMATICS

(EXPRESSED IN PERCENTAGES)

Objective	Reviewers' Minimum Expected Performance	Reviewers' Desired Performance	Reviewers' Predicted Performance	Students' Actual Performance
1	70.16	89.29	77.88	92.75
2	62.30	83.45	67.75	71.66
3	66.48	85.95	73.70	88.57
4	58.11	79.42	64.67	72.35
5	73.31	89.86	80.00	91.47
6	34.72	44.28	37.72	66.66
7	73.21	89.66	80.62	89.52
8	53.45	76.21	59.03	49.42
9	49.48	70.34	54.21	47.73
10	48.45	68.90	52.48	57.08
11	65.52	85.72	71.76	78.62
12	54.00	76.62	60.62	80.74
13	51.38	74.41	57.24	68.31
14	67.31	86.48	76.14	78.54
15	70.10	89.69	77.93	91.12
16	39.97	65.14	41.97	44.85
17	63.38	83.52	69.76	85.33
18	56.86	78.38	62.45	56.96
19	57.38	79.41	64.34	69.06
20	67.10	88.10	72.17	58.96
21	71.41	90.69	78.17	91.51
22	62.69	84.14	66.83	87.26
23	55.48	78.93	59.97	66.38
24	55.17	78.55	61.59	71.37
25	68.48	88.52	76.14	88.41
26	64.21	85.93	73.45	85.51
27	68.76	88.59	76.62	83.44
28	64.97	87.79	73.66	84.45
29	59.07	82.28	65.38	61.24
30	52.21	77.31	58.55	69.83
31	50.69	75.07	55.28	39.16

TWELFTH-GRADE MATHEMATICS
OBJECTIVES

OBJECTIVE	ITEM NUMBER(S)
1. The student will be able to add two or more whole numbers *(four 4-digit addends with renaming).	1,2
2. The student will be able to subtract two whole numbers (4-digit minuend and subtrahend with renaming).	3, 4
3. The student will be able to multiply two whole numbers (4-digit multiplicand by 3-digit multiplier).	5, 6
4. The student will be able to determine the quotient and remainder in the division of two whole numbers (5-digit dividend and 3-digit divisor).	7, 8
5. The student will be able to solve written problems involving whole numbers and one or more of the operations of addition, subtraction, multiplication and division.	9, 35, 38
6. The student will be able to identify the place value that a digit holds in a given number (up to seven digits or four decimal places).	10, 11
7. The student will be able to use simple reasoning to answer a practical question.	12, 36
8. The student will be able to use the commutative or associative laws of addition or multiplication of whole numbers.	14
9. The student will be able to add two or more numbers in decimal form (up to four decimal places).	13, 37
10. The student will be able to subtract two numbers in decimal form (up to four decimal places).	15, 16
11. The student will be able to multiply two numbers in decimal form (up to three decimal places in both the multiplier and multiplicand).	17, 18
12. The student will be able to determine the quotient in the division of two numbers in decimal form (three decimal places in the dividend and two decimal places in the divisor).	19, 20
13. The student will be able to solve written problems involving decimal numbers and one or more of the operations of addition subtraction, multiplication and division.	39
14. The student will be able to add two or more numbers in fraction form (denominators less than or equal to 20) and simplify the results.	21, 22
15. The student will be able to subtract two numbers in fraction form (denominators less than or equal to 20) and simplify the results.	23
16. The student will be able to multiply two numbers in fraction form (denominators less than or equal to 20) and simplify the results.	24, 25
17. The student will be able to solve simple number sentences involving the four basic arithmetic operations such as: $5 + N = 12$, $N - 8 = 16$, $3 \times 3 = N$, $12 \div 4 = N$.	63
18. The student will be able to convert a mixed number to an improper fraction or vice versa.	26
19. The student will be able to solve written problems involving fractions, one or more of the operations of addition, subtraction, multiplication, and the concept of a fraction.	27
20. The student will be able to convert a fraction to a decimal or vice versa.	28, 29
21. The student will be able to determine what percent a first number is of a second number.	30
22. The student will be able to determine a number which is a specified percent of a given number.	40, 52
23. The student will be able to solve written problems involving percents and one or more of the operations of addition, subtraction, multiplication and division.	31, 32

Objectives (continued)

OBJECTIVES	ITEM NUMBER(S)
24. The student will be able to determine the ratio of a part to a whole, or a part to a part for a given set of information.	33
25. The student will be able to determine the length of an object by reading the correct measurement from a ruler placed in the correct position (length to nearest eighth of an inch or nearest millimeter).	34, 53
26. The student will be able to read and interpret the amount indicated on a dial or scale of a measuring instrument such as a balance, thermometer, utility meter, or bathroom scale.	41, 51
27. The student will be able to solve written problems involving money in life situations and one or more of the operations of addition, subtraction, multiplication or division.	65, 69
28. The student will be able to calculate a reduced price given the fraction or percent by which the original price was reduced.	62
29. The student will be able to solve written problems involving time (including the calendar) and one or more of the operations of addition, subtraction, multiplication or division.	42, 43
30. The student will be able to solve written problems involving time, rate and distance.	44, 54
31. The student will be able to convert a given measure from a specified unit to another specified unit *within* the customary system or *within* the metric system of measurement from these measurement families (inch-foot-yard-mile, fluid ounce-cup-pint-quart-gallon, ounce-pound-ton, square inch-square foot-square yard, millimeter - centimeter - meter - kilometer, milliliter-liter, milligram-gram-kilogram-metric ton, cm^2, dm^2, m^2).	45, 46

OBJECTIVES	ITEM NUMBER(S)
32. The student will be able to recognize and/or use the symbols for common metric or customary measurement units such as cm, m, ml, kg, yd., ft., tsp., sq. in., oz.	47, 55
33. The student will be able to identify lines as parallel, intersecting, perpendicular, vertical or horizontal.	48
34. The student will be able to identify representations of simple plane figures such as circle, triangle, square, rectangle, quadrilateral, parallelogram, pentagon, hexagon, octagon.	49
35. The student will be able to compute sales tax on total purchase based upon a given percentage figure.	64
36. The student will be able to determine the perimeter, area, or volume of simple geometric figures.	50, 56
37. The student will be able to use a given formula in a practical application.	57
38. The student will be able to use a table of information to answer written questions.	58, 66
39. The student will be able to interpret and use graphs (picture, bar, circle, broken line) to answer written questions.	60, 67
40. The student will be able to determine the unit price for an item for sale.	59, 70
41. The student will be able to understand the monetary value of and be able to use common units of American currency.	61, 68

*Parenthesis indicate the maximum degree of difficulty of the test item to satisfy the objective.

RESULTS

The twelfth-grade mathematics test consisted of 70 test items covering the 41 objectives listed on page 16. A total of 2887 students completed the test, and they answered an average of 78.3% of the items correctly.

Table B.1 displays student performance on each objective. The table reports the average percentage of correct responses for the number of items measuring each objective.

The students did extremely well on Objectives 1, 3, 5, 8, 9, 17, 18 and 34, for which the scores were all above 90%. The highest score (96.6% correct) was on Objective 8 "Using commutative or associative laws of addition or multiplication of whole numbers." Low performances were noted on Objective 21, "Determining what percent a first number is of a second number" (46.2%), and on Objective 36, "Determining the perimeter, area, or volume of simple geometric figures" (34.8%).

Table B.2 presents the average total test scores in terms of the average percentage of items answered correctly for each of the mandated reporting groups. The results in Table B.2 show that males scored higher than females and whites scored higher than minorities. Students in suburban schools scored highest, followed in descending order by OC/EV, local rural and large city schools. Non-low socioeconomic status students scored higher than low-socioeconomic status students, and students classified as white non-low socioeconomic status scored highest, followed in descending order by white-low, minority non-low and minority-low socioeconomic status students. Limitations of the testing program in obtaining accurate socioeconomic measures may have influenced the results involving race by socioeconomic status categories.

The results in Table B.3 compare the students' actual performance for each objective with minimum, desired and predicted performance expectancy levels established by a statewide panel of reviewers, including mathematics teachers. The reviewers actually set expectancy levels for each item. The expectancy levels for all items representing each objective were then averaged to obtain the expectancy levels for each objective shown in Table B.3.

As shown in Table B.3, students' actual performance exceeded reviewers' minimum expected performance for 35 objectives; exceeded reviewers' predicted performance for 35 objectives; and exceeded reviewers' desired performance for 10 objectives.

TABLE B.1

STUDENT PERFORMANCE BY OBJECTIVE: TWELFTH-GRADE MATHEMATICS

Objective Number*	Number of Items	Average Percentage Correct
1	2	93.5
2	2	89.7
3	2	93.3
4	2	85.3
5	3	90.9
6	2	58.3
7	2	75.3
8	1	96.6
9	2	92.1
10	2	85.2
11	2	83.6
12	2	66.9
13	1	85.8
14	2	70.9
15	1	75.9
16	2	72.2
17	1	91.0
18	1	93.9
19	1	70.3
20	2	59.0
21	1	46.2
22	2	60.6
23	2	62.9
24	1	72.9
25	2	79.1
26	2	87.7
27	2	78.2
28	1	65.5
29	2	84.7
30	2	83.0
31	2	79.5
32	2	82.0
33	1	57.0
34	1	90.8
35	1	68.0
36	2	34.8
37	1	73.5
38	2	86.2
39	2	88.0
40	2	89.4
41	2	89.1

*See page 16 for objective statements.

TABLE B.2

TOTAL TEST PERFORMANCE BY REPORTING GROUPS: TWELFTH-GRADE MATHEMATICS

(Average Percentage Correct)

Reporting Group	Total Test
ALL STUDENTS	78.33
SEX	
Male	79.34
Female	76.62
RACE	
Minorities	62.61
Whites	80.06
COMMUNITY SIZE*	
1. Large city	71.24
2. Suburban	80.84
3. OC/EV	78.79
4. Rural local	78.69
SOCIOECONOMIC STATUS	
Low	72.00
Non Low	80.64
RACE BY SOCIOECONOMIC STATUS	
Minority-Low	60.09
Minority-Non-Low	65.02
White-Low	74.80
White-Non-Low	82.27

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* 1. Eight major city school districts.
2. Suburban school districts within the metropolitan areas of the major cities.
3. OC/EV = Other City/Exempted Villages: (Small or middle-sized city and exempted village districts away from the eight major cities).
4. Rural, local school districts away from the eight major cities.

TABLE B.3

PERFORMANCE ESTIMATES BY OBJECTIVE: COMPARED WITH ACTUAL PERFORMANCE: TWELFTH-GRADE MATHEMATICS

(EXPRESSED IN PERCENTAGES)

Objective	Reviewers' Minimum Expected Performance	Reviewers' Desired Performance	Reviewers' Predicted Performance	Students' Actual Performance
1	80.42	95.38	84.41	93.54
2	80.00	94.20	82.43	89.72
3	79.03	93.54	81.81	93.25
4	77.05	92.40	78.37	85.29
5	68.43	86.81	70.81	90.89
6	67.85	85.10	70.42	58.31
7	51.08	73.68	52.57	75.32
8	73.54	89.65	78.13	96.64
9	71.15	88.26	73.75	92.10
10	68.09	86.70	69.58	85.22
11	68.09	86.22	69.17	83.57
12	64.27	83.37	61.56	66.90
13	63.47	81.67	63.33	85.75
14	63.92	83.58	62.57	70.92
15	63.13	81.94	62.15	75.88
16	67.53	85.28	70.21	72.17
17	71.88	90.28	77.99	91.00
18	68.54	86.46	72.29	93.92
19	61.25	81.39	60.69	70.25
20	62.47	82.60	62.43	58.98
21	58.19	79.58	56.81	46.24
22	62.43	83.19	62.57	60.61
23	61.67	82.40	60.24	62.94
24	64.03	84.10	66.18	72.85
25	72.26	89.69	76.04	79.13
26	76.25	92.71	80.94	87.72
27	59.13	81.11	59.83	78.24
28	61.04	82.50	59.72	65.54
29	72.12	89.58	74.72	84.74
30	62.57	83.19	64.76	82.99
31	64.24	84.34	65.59	79.52
32	60.66	82.50	62.50	82.00
33	65.56	85.00	68.96	56.99
34	59.03	80.97	62.57	90.76
35	64.79	85.21	65.42	67.98
36	58.92	80.97	58.82	34.82
37	60.56	82.85	64.10	73.46
38	71.08	89.51	75.59	86.16
39	62.78	84.41	65.63	88.04
40	67.88	87.60	71.63	89.44
41	74.31	92.74	76.77	89.09

TWELFTH-GRADE SCIENCE
OBJECTIVES

Major Dimension 1. Basic understanding of the fundamental aspects of the nature of scientific knowledge.

	OBJECTIVES	ITEM NUMBER(S)
1-1	The student will be able to exhibit a basic understanding that scientific knowledge results from logical interpretations of various empirical observations or experiments made by individuals.	1,2
1-2	The student will be able to exhibit a basic understanding that the scientific conclusions reached as a result of observations or experimentation should remain the same if repeated by others under similar conditions.	3,4
1-3	The student will be able to exhibit a basic understanding that all scientific explanations are subject to change in the light of new evidence.	5,6

Major Dimension 2. Knowledge of major scientific facts, concepts, principles, laws and theories and the application of these in common problem situations.

	OBJECTIVES	ITEM NUMBER(S)
2-1	The student will be able to exhibit an understanding that events that occur in nature follow a pattern of cause and effect.	7, 51
2-2	The student will be able to exhibit an understanding that all things (objects) are in a state of change, although the rate varies significantly, with the result that some things do not appear to change at all.	20
2-3	The student will be able to exhibit an understanding that events occurring in nature follow a pattern of cycles in which certain conditions tend to be repeated at regular intervals or periods.	11
2-4	The student will be able to exhibit an understanding that matter and energy are interchangeable and indestructible.	12
2-5	The student will be able to demonstrate a basic understanding of the processes that cause changes in the surface of earth including the understanding of rock formations and weather.	30, 31
2-6	The student will be able to exhibit an understanding that nature consists of a series of interdependent relationships among different forces and components. Therefore, changing a single part causes a multitude of other changes.	13
2-7	The student will be able to exhibit an understanding that an organism is a dynamic entity whose diverse parts or organs function together as a whole to maintain life and its activities.	14
2-8	The student will be able to exhibit an understanding that certain attributes of things, situations, or events can be measured and described in numerical form.	15
2-9	The student will be able to demonstrate an understanding of the effect of proper nutrition on living organisms.	16
2-10	The student will know that the presence of a living cell is a fundamental characteristic among all living organisms.	17
2-11	The student will know that the sun is a major source for energy utilized by man and other living organisms.	18
2-12	The student will know that the characteristics of living organisms are the result of both hereditary and environmental influences.	19, 52
2-13	The student will be able to demonstrate an understanding of biological systems in organizing and releasing energy.	21

Objectives (continued)

OBJECTIVES	ITEM NUMBER(S)
2-14 The student will understand the relationship between the earth and other bodies in the universe.	22
2-15 The student will be able to exhibit a basic understanding of the functions and operations of machines.	23
2-16 The student will be able to demonstrate a basic functional understanding of ideas such as gravity, force, velocity, acceleration, weight and mass.	24, 25, 26, 53
2-17 The student will be able to demonstrate a basic functional understanding of the interaction model of energy exchange as applied to living and nonliving systems.	27
2-18 The student will demonstrate a basic understanding of the fragile nature of our environment and the responsibility of people for maintaining balance within it.	29
2-19 The student will be able to demonstrate a basic understanding of the ability of biological systems to replicate themselves.	28

Major Dimension 3. Basic understanding of and utilization of scientific process in solving problems or making decisions.

OBJECTIVES

OBJECTIVES	ITEM NUMBER(S)
3-1 Observing	32, 44
3-2 Classifying	33, 34
3-3 Reading	42, 10
3-4 Recognizing hypotheses	35
3-5 Designing experiments including the control and manipuation of variables.	8, 36
3-6 Measuring	37, 38
3-7 Interpreting data	9, 39
3-8 Recognizing inferences	40
3-9 Making predictions	41

Major Dimension 4. Basic understanding of the joint enterprise of science and technology and the critical interrelationships of these with each other and with society as a whole.

OBJECTIVES

OBJECTIVES	ITEM NUMBER(S)
4-1 The student will be able to recognize and appreciate the contributions science and scientists make to society.	43
4-2 The student will be aware of the resources necessary to support the scientific enterprise including such factors as time, financial support, talent and formal and long-term training requirements.	45
4-3 The student will be able to recognize that each citizen has a responsibility to develop an awareness of scientific and technological issues and exert influence accordingly.	46
4-4 The student will be able to recognize that scientific progress is a result of cooperative effort including respect for opinions and techniques of others.	47
4-5 The student will be able to make a distinction between the basic functions of science and technology while being aware of their interdependence for continuing growth.	48
4-6 The student will be able to recognize that there are limitations to what science and technology can accomplish.	49, 50

RESULTS

The twelfth-grade science test consisted of 53 test items covering the 37 objectives listed on page 22. These objectives are in four major dimensions of scientific literacy. Objectives 1-1 through 1-3 dealt with "Basic understanding of the fundamental aspects of the nature of scientific knowledge." Objectives 2-1 through 2-19 dealt with "Knowledge of major scientific facts, concepts, principles, laws and theories and the application of these in common problem situations." Objectives 3-1 through 3-9 involved "Basic understanding of and utilization of scientific processes in solving problems or making decisions." Objectives 4-1 through 4-6 dealt with "Basic understanding of the joint enterprise of science and technology and the critical interrelationships of these with each other and with society as a whole." A total of 2915 students completed the test and they answered an average of 61.5% of the items correctly.

Table C.1 displays student performance for each major dimension and on each objective. The table reports the average percentage of correct responses for the items for each major dimension and objective and shows the number of items representing each objective.

Student performance was highest in major dimensions 3 (68.4%) and 4 (65.6%). Within these two major dimensions the performance was fairly high on Objective 3-3 (80.8%) and 4-3 (80.2%). The lowest performance within these two major dimensions was on Objective 3-9 (41.6%). Performance was lowest on major dimensions 1 (59.5%) and 2 (57.9%). Within these two major dimensions performance was highest on Objectives 1-1 (84.3%), 2-9 (94.6%) and 2-10 (81.3%). Lowest performance was on Objectives 1-3 (30.4%), 2-3 (40.0%) and 2-13 (21.0%). See page 22 for major dimension and objective statements.

Table C.2 presents the average total test scores in terms of the average percentage of items answered correctly for each of the mandated reporting groups. The results in Table C.2 show that males scored slightly higher than females, and whites scored higher than minorities. Students in suburban schools scored highest followed in descending order by OC/EV, rural local and large city schools. Non-low socioeconomic status students scored higher than low socioeconomic status students, and students classified as white non-low socioeconomic status scored highest, followed in descending order by white-low, minority non-low and minority-low socioeconomic status students. Limitations of the testing program in obtaining accurate socioeconomic measures may have influenced the results involving race by socioeconomic status categories.

The results in Table C.3 compare the students' actual performance for each major dimension and objective with the minimum, desired and predicted performance expectancy levels established by a statewide panel of reviewers, including science teachers. The reviewers actually set expectancy levels for each item. The expectancy levels for the objectives and major dimensions were then calculated by averaging the expectancy levels for all items representing each objective or major dimension.

As shown in Table C.3, students' actual performance exceeded reviewers' minimum expected performance for 29 objectives; exceeded reviewers' predicted performance for 21 objectives; and exceeded reviewers' desired performance for 4 objectives. Actual performance exceeded both reviewers' minimum and predicted levels on all four major dimensions.

TABLE C.1

STUDENT PERFORMANCE BY MAJOR DIMENSION AND OBJECTIVE TWELFTH-GRADE SCIENCE

Objective Number*	Number of Items	Average Percentage Correct
Major Dimension 1	6	59.5
1-1	2	84.3
1-2	2	63.8
1-3	2	30.4
Major Dimension 2	25	57.9
2-1	2	63.3
2-2	1	52.5
2-3	1	40.0
2-4	1	53.3
2-5	2	72.1
2-6	1	73.9
2-7	1	61.8
2-8	1	35.4
2-9	1	94.6
2-10	1	81.3
2-11	1	42.5
2-12	2	59.9
2-13	1	21.0
2-14	1	66.5
2-15	1	45.0
2-16	4	55.7
2-17	1	60.9
2-18	1	68.7
2-19	1	77.4
Major Dimension 3	15	68.4
3-1	2	46.6
3-2	2	63.5
3-3	2	80.8
3-4	1	76.0
3-5	2	72.6
3-6	2	71.5
3-7	2	60.0
3-8	1	59.3
3-9	1	41.6
Major Dimension 4	7	65.6
4-1	1	56.7
4-2	1	65.8
4-3	1	80.2
4-4	1	67.8
4-5	1	52.2
4-6	2	68.1

*See page 22 for major dimension and objective statements.

TABLE C.2
TOTAL TEST PERFORMANCE BY REPORTING GROUP: TWELFTH-GRADE SCIENCE
(Average Percentage Correct)

Reporting Group	Total Test
ALL STUDENTS	61.49
SEX	
Male	62.82
Female	59.70
RACE	
Minorities	45.71
Whites	63.36
COMMUNITY SIZE*	
1. Large city	54.63
2. Suburban	64.59
3. OC/EV	62.26
4. Rural local	61.02
SOCIOECONOMIC STATUS	
Low	55.25
Non-Low	64.32
RACE BY SOCIOECONOMIC STATUS	
Minority-Low	41.87
Minority-Non-Low	49.81
White-Low	58.28
White-Non-Low	65.72

* 1. Eight major city school districts.
2. Suburban school districts within the metropolitan areas of the major cities.
3. OC/EV = Other City/Exempted Villages: (Small or middle-sized city and exempted village districts away from the eight major cities).
4. Rural, local school districts away from the eight major cities.

TABLE C.3

PERFORMANCE ESTIMATES BY OBJECTIVE: COMPARED WITH ACTUAL PERFORMANCE: TWELFTH-GRADE SCIENCE

(EXPRESSED IN PERCENTAGES)

Objective	Reviewers' Minimum Expected Performance	Reviewers' Desired Performance	Reviewers' Predicted Performance	Students' Actual Performance
Major Dimension 1	48.71	74.14	59.00	59.50
1-1	51.47	77.07	62.97	84.34
1-2	48.80	74.21	59.51	63.81
1-3	45.86	71.13	54.51	30.43
Major Dimension 2	47.27	74.07	56.90	57.90
2-1	53.12	77.14	61.65	63.33
2-2	48.57	71.05	58.95	52.45
2-3	44.21	69.32	53.08	40.04
2-4	48.12	73.01	56.32	53.28
2-5	48.01	73.65	55.49	72.13
2-6	53.91	79.47	64.89	73.87
2-7	49.70	75.86	58.42	61.76
2-8	42.41	69.32	50.15	35.38
2-9	58.50	85.64	66.92	94.59
2-10	61.05	85.56	70.38	81.31
2-11	49.85	74.96	57.44	42.49
2-12	54.10	78.87	62.97	59.92
2-13	56.32	81.05	63.16	21.00
2-14	41.13	66.24	47.82	66.49
2-15	48.72	73.31	54.59	45.04
2-16	41.35	66.13	47.44	55.68
2-17	50.38	75.94	59.62	60.88
2-18	44.29	70.98	50.45	68.65
2-19	52.63	76.09	60.23	77.35
Major Dimension 3	56.31	84.76	65.50	68.40
3-1	53.01	79.14	62.22	46.59
3-2	54.32	78.38	63.57	63.49
3-3	61.62	85.86	71.20	80.81
3-4	55.64	81.50	66.39	76.03
3-5	56.62	81.24	66.05	72.61
3-6	64.85	91.39	72.67	71.45
3-7	52.14	77.74	61.20	60.04
3-8	52.93	76.69	62.33	59.28
3-9	50.98	78.12	60.00	41.55
Major Dimension 4	49.66	74.97	58.00	65.60
4-1	46.47	71.73	55.41	56.72
4-2	45.79	70.15	53.98	65.76
4-3	54.21	80.45	62.78	80.22
4-4	51.13	76.17	60.00	67.81
4-5	47.59	71.95	54.66	52.20
4-6	51.20	77.18	59.59	68.10

TWELFTH-GRADE ENGLISH COMPOSITION
OBJECTIVES

OBJECTIVE	ITEM NUMBER(S)
1. The student will demonstrate ability to use formal standard English by identifying errors in a given sentence.	9, 13, 14, 15*, 21, 22, 23, 25, 28, 30, 31
2. The student will demonstrate ability to use correct punctuation by identifying errors in a given sentence.	1, 2, 3, 4, 12, 16, 17, 24, 33
3. The student will demonstrate ability to use correct capitalization by identifying errors in a given sentence.	5, 6, 7, 18, 20
4. The student will demonstrate ability to spell correctly by identifying errors in a given sentence.	8, 10, 11, 19, 26, 27*, 29, 32

OBJECTIVE	ITEM NUMBER(S)
5. The student will demonstrate ability to distinguish more effective sentences from less effective ones by choosing the best solution to sentence combining tasks.	34, 35, 36
6. The student will demonstrate ability to plan, write and edit a communication adequately.	37
7. The student will demonstrate ability to write to communicate adequately in a business situation.	38

*Items 15 and 27 were not scored due to misleading errors in these items which have now been corrected.

RESULTS

The twelfth-grade English composition tests consisted of two major types of items: multiple-choice and open-ended writing questions. The multiple-choice portion assessed performance on the five objectives listed above, using 34 items related to grammar, punctuation, capitalization, spelling and sentence combining. These 34 items were written in three different formats. The writing portion covered two types of composition writing with two items. A total of 2973 twelfth graders completed the test, and they answered 57.8% of the multiple-choice items correctly. The open-ended writing items were scored using criteria discussed in Part B which follows:

PART A: MULTIPLE-CHOICE ITEMS

Table D.1 displays student performance on the five objectives assessed with multiple-choice items and provides the number of test items representing each objective. The table reports the average of the percentage of correct responses for items for each objective. There were actually 36 multiple-choice items on the test. However, due to misleading errors in items 15 and 27, only 34 items were scored and analyzed.

Performance was highest on Objective 5 "Sentence Combining" (75.1%). Performances on Objective 2 "Punctuation" and Objective 4 "Spelling" were almost identical at 62.2% and 62.1%, respectively. Students were least effective on Objective 1 "Correct English Usage" (50.3%) and Objective 3 "Capitalization" (49.8%).

Table D.2 presents results for each objective and the average total test score (excluding the writing items) for reporting groups by sex, race, community size, socioeconomic status and race by socioeconomic status. The results in Table D.2 show that females did better than males on all five objectives, and whites scored higher than minorities. Students from suburban schools scored highest, and students from large city schools scored lowest. Students from families of non-low socioeconomic status scored better than those from lower socioeconomic families. White students of non-low socioeconomic status scored highest, followed in descending order by white low socioeconomic status students, minority non-low socioeconomic status students and minority-low socioeconomic status students. These differences were consistent across all five objectives and for the total for all multiple-choice items. Limitations of the testing program in obtaining accurate socioeconomic measures may have influenced the results involving race by socioeconomic status categories.

The results in Table D.3 compare the students' actual performance with the minimum, desired and predicted performance expectancy levels set by a statewide panel of reviewers, including high school English teachers. The reviewers actually set expectancy levels for each item. The expectancy levels for all items representing each objective were then averaged to obtain the expectancy levels for each objective shown in Table D.3.

As shown in Table D.3, students' actual performance exceeded reviewers' minimum expected performance for Objectives 2, 4 and 5; exceeded reviewers' predicted performance for Objectives 2, 4 and 5; and exceeded reviewers' desired performance for Objective 5.

PART B: ESSAY ITEMS

The essay portion of this test consisted of two items. Item 37 provided the student with a description of a situation involving an ethical problem and asked the student to write an essay, taking and defending a position on the problem. The essays were evaluated on thoroughness of treatment, organization and on compositional skills using the scoring categories shown in Table D.4.

Item 38 required the students to write a business letter to obtain cost estimates for a particular kind of award. A picture of an envelope was also presented and the students were provided address information and asked to address the envelope.

The envelope exercise was evaluated on the positioning of the information. Letter form was evaluated according to conventions of business letter form using a five-point scale. The letter content was evaluated using a five-point scale. These scales are presented in Table D.4.

Table D.4 presents the results for both writing items, giving the percentage of students that were given the respective ratings under each scoring criteria. Also presented is the average multiple-choice score for the students that received each of the category ratings on the writing questions. This provides a comparison of performance on both major parts of the test.

For question 37, over half (53%) of the students received a 4 or 5 rating on "thoroughness of treatment;" over three-fourths (76%) received a 3 or 5 rating on "organization;" and 82% received a 3 or 5 rating on "compositional skills."

For question 38, students had little trouble addressing the envelope, with 92% putting both addresses in the correct places. Although 41% of the students failed to meet few, if any, of the conventions of a business letter, 59% met most or all of the business letter conventions. With respect to "letter content," 58% of the students received a "5" rating in requesting a cost estimate and listing all four characteristics.

The table shows that the students who scored higher on the writing items were the students who received the higher scores on the multiple-choice portion of the test.

Table D.5 presents the average scores on each writing question by reporting group. Individual scores on question 37 were arrived at by adding two times the thoroughness rating plus the organization rating plus the compositional skills rating. Scores for question 38 were calculated by adding the envelope rating plus the letter form rating plus two times the letter content rating. These scores were then averaged to obtain the average scores in Table D.5.

As was the case for the multiple-choice portion shown in Table D.2, females scored higher than males, and whites scored higher than minorities on question 37. Also, suburban schools scored highest while large city schools scored lowest. Students from families of non-low socioeconomic status scored higher than those students from low socioeconomic status families. White students of non-low socioeconomic status scored highest, followed in descending order by white-low socioeconomic status students, minority non-low socioeconomic status students and minority-low socioeconomic status students.

For question 38, the average scores for each reporting group were higher than on question 37 but the relative performance among the various groups was the same with one exception. In the community size category, the other city/exempted village school districts' students scored highest, rather than the suburban school districts. Limitations of the testing program in obtaining accurate socioeconomic measures may have influenced the results involving race by socioeconomic status categories.

TABLE D.1

STUDENT PERFORMANCE BY OBJECTIVE: TWELFTH-GRADE ENGLISH COMPOSITION

Objective Number*	Number of Items	Average Percentage Correct
1	10	50.3
2	9	62.2
3	5	49.8
4	7	62.1
5	3	75.1
6**	(1) open-ended	
7**	(1) open-ended	

*See page 23 for objective statements

**Objectives 6 and 7 involved open-ended questions for which no "Average Percent Correct" scores were calculated.

See tables D.4 and D.5 for results of open-ended questions.

TABLE D.2
OBJECTIVE PERFORMANCE BY REPORTING GROUPS: TWELFTH-GRADE COMPOSITION
(Average Percentage Correct)

	Objectives					
Reporting Group	**1**	**2**	**3**	**4**	**5**	**Total* Test**
ALL STUDENTS	50.3	62.2	49.8	62.1	75.1	57.80
SEX						
Male	47.8	58.8	46.2	56.4	73.6	54.33
Female	53.4	66.4	53.8	68.3	77.8	61.88
RACE						
Minorities	39.5	52.9	42.4	49.7	63.7	47.53
Whites	52.2	64.1	51.3	64.4	77.4	59.74
COMMUNITY SIZE**						
1. Large city	46.4	59.8	45.7	59.1	70.7	54.40
2. Suburban	52.4	64.6	49.9	63.7	77.5	59.58
3. OC/EV	52.3	63.0	52.9	63.4	76.9	59.46
4. Rural local	48.9	60.3	50.3	61.4	74.1	56.71
SOCIOECONOMIC STATUS						
Low	43.3	56.9	45.4	55.6	70.6	51.96
Non-Low	54.1	65.1	52.2	65.7	77.6	60.98
RACE BY SOCIOECONOMIC STATUS						
Minority-Low	36.4	50.7	40.9	47.8	61.6	45.27
Minority-Non-Low	43.2	55.6	44.1	51.9	66.3	50.24
White-Low	46.2	60.1	47.9	59.0	74.7	55.06
White-Non-Low	55.1	66.0	52.9	66.9	78.7	61.94

---

*Total for multiple choice items only. For results on objectives assessed with open ended items, see Table D.5.

** 1. Eight major city school districts.
2. Suburban school districts within the metropolitan areas of the major cities.
3. OC/EV = Other City/Exempted Villages: (Small or middle-sized city and exempted village districts away from the eight major cities).
4. Rural, local school districts away from the eight major cities.

TABLE D.3

PERFORMANCE ESTIMATES BY OBJECTIVE: * COMPARED WITH ACTUAL PERFORMANCE: TWELFTH-GRADE COMPOSITION

Objective	Reviewers' Minimum Expected Performance	Reviewers' Desired Performance	Reviewers' Predicted Performance	Students' Actual Performance
1	51.23	79.14	54.72	50.30
2	48.43	76.39	54.13	62.23
3	53.07	79.33	59.39	49.79
4	53.94	81.45	58.60	62.14
5	45.07	71.74	49.67	75.14

---

*Due to the complicated nature of the scoring procedures used for the open-ended writing items used to assess Objectives 6 and 7, no expectancy levels were established.

TABLE D.4

TWELFTH-GRADE ENGLISH COMPOSITION PERFORMANCE ON WRITING ITEMS BY SCORING CATEGORY

Scoring Category	Percentage of Students within Category	Average Multiple Choice Score of Students in Category (Percent Correct)
QUESTION 37		
THOROUGHNESS OF TREATMENT		
1. No response; fragment; illegible; misunderstands the question; any reason given for refusing to write a response	6	46
2. Does not take a clear position, or takes position but gives no reason	15	54
3. Takes a position and gives one unelaborated reason	25	53
4. Takes a position and gives one elaborated reason, one elaborated plus one unelaborated reason, or two or three unelaborated reasons	29	60
5. Takes a position and gives two or more elaborated reasons, one elaborated plus two or more unelaborated reasons, or four or more unelaborated reasons	24	66
ORGANIZATION		
1. This essay starts anywhere, meanders, and never gets anywhere	24	49
3. Organization is standard and conventional	58	58
5. The essay starts at a good point, has a sense of movement, gets somewhere, and then stops	18	68
COMPOSITIONAL SKILLS		
1. Basic punctuation is omitted or haphazard, resulting in fragments, run-ons; so many spelling errors that they interfere with comprehension	18	43
3. There are some violations of rules, but no more than are usually found in the average paper	59	58
5. There are no, or very few, violations of rules; spelling is consistent (errors occur as slips or in words hard to spell)	23	69
QUESTION 38		
LETTER ENVELOPE		
1. No response; neither address correctly positioned	2	28
3. One address correctly positioned	5	53
5. Both addresses correctly positioned	92	59
LETTER FORM		
1. Few if any of the conventions of the business letter are met	41	51
3. Most of the conventions of the business letter are met	33	59
5. All the conventions of the business letter are met	26	66
LETTER CONTENT		
1. No response; fragment; illegible; fails to request cost estimate	6	39
2. Requests cost estimate very vaguely or indirectly: does not specify plaque, for example	8	51
3. Requests cost estimate but omits characteristics	15	54
4. Requests cost estimate but does not list all four characteristics	12	55
5. Requests cost estimate and lists all four characteristics	58	63

TABLE D.5
WRITING ITEM PERFORMANCE BY REPORTING GROUPS: TWELFTH-GRADE COMPOSITION

Reporting Group	Average Score* Question 37	Question 38
ALL STUDENTS	12.93	15.63
SEX		
Male	12.47	14.80
Female	13.50	16.56
RACE		
Minorities	10.62	13.98
Whites	13.29	15.94
COMMUNITY SIZE**		
1. Large city	11.51	14.55
2. Suburban	13.68	15.97
3. OC/EV	13.10	16.01
4. Rural local	12.92	15.65
SOCIOECONOMIC STATUS		
Low	11.99	14.77
Non-Low	13.46	16.10
RACE BY SOCIOECONOMIC STATUS		
Minority-Low	10.32	13.38
Minority-Non-Low	11.00	14.74
White-Low	12.56	15.39
White-Non-Low	13.64	16.20

*Minimum score attainable is a "4" and maximum score attainable is a "20" for each item.

**1. Eight major city school districts.
2. Suburban school districts within the metropolitan areas of the major cities.
3. OC/EV = Other City/Exempted Villages: (Small or middle-sized city and exempted village districts away from the eight major cities).
4. Rural, local school districts away from the eight major cities.

APPENDICES

APPENDIX A

Performance by Reporting Groups on Objectives

This appendix reports the performance levels of reporting groups, and students as a whole, on each objective. A number of specific statistics are reported and these are described below.

The P-Value is an estimate, based upon the results of the sample taken, of the performance level the entire population of students at the same grade level would have achieved if they had taken the same test. In order to obtain the P-Value, the scores for different reporting groups are weighted differently, depending upon their size within the population.

In Column 2, the standard error of the P-Value is given. This is a measure of the extent to which the estimated P-Value differs or varies from the actual population performance level. The larger this value, the less reliable is the P-Value which has been reported. As the standard error becomes smaller, the P-Value can be taken as a more reliable measure of the population's true performance level.

The group effect, Column 3, is the difference between a particular reporting group's performance and the average score for all students. For example, if the overall average score on a test was 75.0 and if one reporting group had an average score of 70, the group effect for this reporting group is -5.0 percentage points. When an asterisk appears beside this value, it is an indication that the group effect was statistically significant at the $p \leq .05$ level.

Column 4 gives the standard error of the group effect. As with the standard error of the P-Value, this is an indication of the extent to which individual scores deviated from the overall score for the reporting group. A large standard error indicates a large degree of variability in the scores of the members of the reporting group and, hence, the reporting group score is not as reliable as when the standard error is small.

Column 5 gives the total number of students within the entire sample and within each reporting group.

Appendix A contains reports of performance on objectives by reporting for each of the four tests.

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE : 1

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
92.75	0.88			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
90.97	0.12	-1.78*	0.07	1,628		MALE
94.99	0.09	2.24*	0.10	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
90.34	0.18	-2.41*	0.16	692		1
94.12	0.17	1.37*	0.09	975		2
92.38	0.16	-0.37*	0.16	800		3
93.40	0.12	0.65*	0.23	786		4
----RACE					----	
89.16	0.27	-3.59*	0.21	465		MINORITY
93.50	0.13	0.75*	0.06	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
90.97	0.14	-1.78*	0.14	1,128		LOW
93.68	0.17	0.93*	0.05	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
88.76	0.28	-3.99*	0.12	223		MINORITY LOW
91.76	0.09	-0.99*	0.16	843		NON-MINORITY LOW
89.54	0.15	-3.21*	0.16	242		MINORITY NON-LOW
94.28	0.08	1.53*	0.07	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE : 2

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
71.66	0.63			3,253	ALL STUDENTS
----SEX OF THE STUDENT				----	
68.75	0.20	-2.91*	0.17	1,628	MALE
75.59	0.22	3.93*	0.16	1,564	FEMALE
----SIZE OF THE COMMUNITY				----	
68.16	0.41	-3.50*	0.25	692	1
75.51	0.42	3.85*	0.34	975	2
69.86	0.37	-1.80*	0.35	800	3
71.77	0.40	0.11	0.25	786	4
----RACE				----	
61.00	0.55	-10.66*	0.21	465	MINORITY
73.84	0.22	2.18*	0.08	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
65.80	0.17	-5.86*	0.26	1,128	LOW
74.74	0.17	3.08*	0.14	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
60.47	0.49	-11.19*	0.24	223	MINORITY LOW
67.95	0.16	-3.71*	0.21	843	NON-MINORITY LOW
61.49	0.29	-10.17*	0.36	242	MINORITY NON-LOW
76.51	0.25	4.85*	0.16	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE : 3

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
88.57	1.87			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
86,19	0,35	-2,38*	0,14	1,628		MALE
91,58	0,37	3,01*	0,11	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
84,88	0,28	-3,69*	0,26	692		1
89,74	0,48	1,17*	0,32	975		2
88,51	0,31	-0,06	0,24	800		3
90,13	0,35	1,56*	0,35	786		4
----RACE					----	
81,28	0,43	-7,29*	0,38	465		MINORITY
90,06	0,36	1,49*	0,09	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
84,70	0,44	-3,87*	0,22	1,128		LOW
90,60	0,43	2,03*	0,09	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
78,91	0,31	-9,66*	0,49	223		MINORITY LOW
86,82	0,20	-1,75*	0,21	843		NON-MINORITY LOW
83,47	0,34	-5,10*	0,31	242		MINORITY NON-LOW
91,52	0,37	2,95*	0,11	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE : 4

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
72,35	0,67			3,253	ALL STUDENTS
----SEX OF THE STUDENT ----					
70,42	0,18	-1,93*	0,21	1,628	MALE
75,32	0,25	2,97*	0,19	1,564	FEMALE
----SIZE OF THE COMMUNITY ----					
66,65	0,44	-5,70*	0,45	692	1
76,25	0,83	3,90*	0,28	975	2
71,57	0,56	-0,78	0,45	800	3
73,09	0,34	0,74	0,41	786	4
----RACE ----					
60,13	0,78	-12,22*	0,27	465	MINORITY
74,78	0,18	2,43*	0,12	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
64,02	0,30	-8,33*	0,36	1,128	LOW
76,73	0,21	4,38*	0,18	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
59,85	0,63	-12,50*	0,18	223	MINORITY LOW
65,96	0,30	-6,39*	0,32	843	NON-MINORITY LOW
60,39	0,82	-11,96*	0,83	242	MINORITY NON-LOW
78,76	0,29	6,41*	0,20	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE : 5

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
91.47	1.22			3,253	ALL STUDENTS
----SEX OF THE STUDENT ----					
90.08	0.20	-1.39*	0.19	1,628	MALE
93.24	0.26	1.77*	0.22	1,564	FEMALE
----SIZE OF THE COMMUNITY ----					
89.27	0.35	-2.20*	0.28	692	1
91.60	0.33	0.13	0.25	975	2
93.06	0.27	1.59*	0.32	800	3
91.45	0.21	-0.02	0.30	786	4
----RACE ----					
88.68	0.52	-2.79*	0.41	465	MINORITY
92.18	0.13	0.71*	0.09	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
90.59	0.27	-0.88*	0.21	1,128	LOW
91.94	0.21	0.47*	0.11	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
86.01	0.61	-5.46*	0.43	223	MINORITY LOW
91.83	0.18	0.36	0.25	843	NON-MINORITY LOW
91.15	0.57	-0.32	0.41	242	MINORITY NON-LOW
92.34	0.19	0.87*	0.14	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE : 6

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
66.66	1.47			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
66.08	0.17	-0.58*	0.07	1,628		MALE
67.83	0.29	1.17*	0.06	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
58.23	0.32	-8.43*	0.14	692		1
70.12	0.33	3.46*	0.15	975		2
67.81	0.34	1.15*	0.15	800		3
68.07	0.20	1.41*	0.11	786		4
----RACE					----	
54.01	0.19	-12.65*	0.11	465		MINORITY
69.10	0.09	2.44*	0.04	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
60.00	0.34	-6.66*	0.12	1,128		LOW
70.16	0.30	3.50*	0.06	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
52.60	0.13	-14.06*	0.34	223		MINORITY LOW
62.33	0.15	-4.33*	0.13	843		NON-MINORITY LOW
55.32	0.28	-11.34*	0.27	242		MINORITY NON-LOW
72.16	0.28	5.50*	0.08	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE : 7

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
89.52	0.60			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
88.83	0.16	-0.69*	0.10	1,628		MALE
90.32	0.12	0.80*	0.08	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
85.18	0.19	-4.34*	0.21	692		1
91.19	0.24	1.67*	0.15	975		2
90.84	0.16	1.32*	0.15	800		3
89.65	0.28	0.13	0.16	786		4
----RACE					----	
80.74	0.22	-8.78*	0.28	465		MINORITY
90.97	0.15	1.45*	0.04	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
85.82	0.20	-3.70*	0.11	1,128		LOW
91.46	0.19	1.94*	0.07	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
78.36	0.37	-11.16*	0.16	223		MINORITY LOW
87.47	0.19	-2.05*	0.11	843		NON-MINORITY LOW
82.94	0.24	-6.58*	0.29	242		MINORITY NON-LOW
92.55	0.14	3.03*	0.09	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE : 8

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
49.42	1.59			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
49.76	0.31	0.34	0.18	1,628		MALE
49.20	0.32	-0.22	0.16	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
43.51	0.29	-5.91*	0.65	692		1
60.82	0.50	11.40*	0.25	975		2
46.60	0.32	-2.82*	0.37	800		3
43.81	0.43	-5.61*	0.28	786		4
----RACE					----	
35.06	0.27	-14.36*	0.28	465		MINORITY
51.99	0.33	2.57*	0.09	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
40.77	0.24	-8.65*	0.27	1,128		LOW
53.97	0.24	4.55*	0.12	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
29.95	0.57	-19.47*	0.65	223		MINORITY LOW
43.53	0.28	-5.89*	0.28	843		NON-MINORITY LOW
39.79	0.53	-9.63*	0.31	242		MINORITY NON-LOW
55.81	0.28	6.39*	0.15	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"4TH GRADE MATH"

OBJECTIVE : 9

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
47.73	1.84			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
46.37	0.52	-1.36*	0.21	1,628		MALE
49.82	0.38	2.09*	0.29	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
40.23	0.58	-7.50*	0.77	692		1
47.08	0.66	-0.65	0.43	975		2
51.71	0.90	3.98*	0.42	800		3
50.28	0.79	2.55*	0.48	786		4
----RACE					----	
39.82	0.58	-7.91*	0.35	465		MINORITY
49.15	0.44	1.42*	0.13	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
41.91	0.45	-5.82*	0.29	1,128		LOW
50.79	0.42	3.06*	0.27	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
37.67	0.36	-10.06*	1.02	223		MINORITY LOW
43.34	0.50	-4.39*	0.29	843		NON-MINORITY LOW
41.81	0.59	-5.92*	0.57	242		MINORITY NON-LOW
51.78	0.49	4.05*	0.26	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"4TH GRADE MATH"

OBJECTIVE #10

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
57.08	1.70			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
53.56	0.39	-3.52*	0.32	1,628		MALE
61.37	0.43	4.29*	0.36	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
51.35	0.55	-5.73*	0.34	692		1
54.94	0.67	-2.14*	0.38	975		2
59.62	0.62	2.54*	0.56	800		3
61.42	1.00	4.34*	0.68	786		4
----RACE					----	
50.90	0.64	-6.18*	0.60	465		MINORITY
58.32	0.37	1.24*	0.20	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
52.64	0.48	-4.44*	0.40	1,128		LOW
59.42	0.37	2.34*	0.32	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
49.65	1.08	-7.43*	0.52	223		MINORITY LOW
53.79	0.37	-3.29*	0.40	843		NON-MINORITY LOW
52.05	0.72	-5.03*	0.59	242		MINORITY NON-LOW
60.36	0.44	3.28*	0.34	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #11

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
78.62	1.16			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
77.89	0.15	-0.73*	0.09	1,628		MALE
79.97	0.15	1.35*	0.06	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
73.41	0.27	-5.21*	0.10	692		1
82.33	0.28	3.71*	0.13	975		2
79.75	0.23	1.13*	0.14	800		3
77.28	0.20	-1.34*	0.18	786		4
----RACE					----	
63.07	0.30	-15.55*	0.14	465		MINORITY
81.53	0.23	2.91*	0.04	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
72.05	0.11	-6.57*	0.10	1,128		LOW
82.07	0.24	3.45*	0.08	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
60.18	0.25	-18.44*	0.12	223		MINORITY LOW
75.70	0.22	-2.92*	0.11	843		NON-MINORITY LOW
65.75	0.24	-12.87*	0.29	242		MINORITY NON-LOW
84.16	0.20	5.54*	0.09	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #12

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
80.74	0.72			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
78.33	0.21	-2.41*	0.15	1,628	MALE
83.35	0.26	2.61*	0.11	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
73.93	0.26	-6.81*	0.25	692	1
83.52	0.40	2.78*	0.23	975	2
82.84	0.42	2.10*	0.17	800	3
80.75	0.36	0.01	0.24	786	4
----RACE					----
68.15	0.20	-12.59*	0.12	465	MINORITY
82.78	0.22	2.04*	0.05	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
75.39	0.23	-5.35*	0.10	1,128	LOW
83.56	0.18	2.82*	0.10	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
65.97	0.30	-14.77*	0.52	223	MINORITY LOW
77.15	0.23	-3.59*	0.13	843	NON-MINORITY LOW
70.16	0.42	-10.58*	0.28	242	MINORITY NON-LOW
85.33	0.20	4.59*	0.10	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #13

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
68.31	1.36			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
64.65	0.37	-3.66*	0.17	1,628		MALE
72.69	0.27	4.38*	0.20	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
59.61	0.16	-8.70*	0.24	692		1
72.05	0.48	3.74*	0.37	975		2
70.94	0.19	2.63*	0.43	800		3
68.12	0.59	-0.19	0.39	786		4
----RACE					----	
51.53	0.55	-16.78*	0.20	465		MINORITY
71.35	0.36	3.04*	0.10	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
60.09	0.34	-8.22*	0.25	1,128		LOW
72.63	0.20	4.32*	0.15	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
48.65	0.50	-19.66*	0.20	223		MINORITY LOW
62.95	0.34	-5.36*	0.26	843		NON-MINORITY LOW
54.19	0.58	-14.12*	0.36	242		MINORITY NON-LOW
75.14	0.34	6.83*	0.18	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #14

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
78,54	1,39			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
76,48	0,33	-2,06*	0,22	1,628		MALE
81,04	0,45	2,50*	0,22	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
72,15	0,69	-6,39*	0,06	692		1
83,12	0,52	4,58*	0,19	975		2
76,98	0,31	-1,56*	0,30	800		3
79,81	0,66	1,27*	0,57	786		4
----RACE					----	
66,40	0,78	-12,14*	0,29	465		MINORITY
80,82	0,27	2,28*	0,12	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
73,11	0,36	-5,43*	0,33	1,128		LOW
81,40	0,32	2,86*	0,13	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
64,27	0,81	-14,27*	0,27	223		MINORITY LOW
75,44	0,35	-3,10*	0,36	843		NON-MINORITY LOW
68,38	0,71	-10,16*	0,27	242		MINORITY NON-LOW
83,25	0,25	4,71*	0,16	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #15

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
91,12	1.87			3,253	ALL STUDENTS
----SEX OF THE STUDENT				----	
89,90	0.20	-1.22*	0,22	1,628	MALE
92,91	0.36	1,79*	0,12	1,564	FEMALE
----SIZE OF THE COMMUNITY				----	
87,73	0,57	-3,39*	0,37	692	1
92,66	0.43	1,54*	0,28	975	2
91,33	0,39	0,21	0,20	800	3
91,75	0.39	0,63*	0,30	786	4
----RACE				----	
82,98	0,41	-8,14*	0,41	465	MINORITY
92,62	0.34	1,50*	0,09	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
88,71	0,38	-2,41*	0,24	1,128	LOW
92,39	0.40	1,27*	0,12	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
81,45	0,77	-9,67*	0,59	223	MINORITY LOW
90,92	0,43	-0,20	0,22	843	NON-MINORITY LOW
84,40	0,39	-6,72*	0,43	242	MINORITY NON-LOW
93,40	0.34	2,28*	0,15	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE :16

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
44.85	1.82			3,253	ALL STUDENTS
----SEX OF THE STUDENT ----					
46.50	0.29	1.65*	0.08	1,628	MALE
43.15	0.21	-1.70*	0.08	1,564	FEMALE
----SIZE OF THE COMMUNITY ----					
39.96	0.36	-4.89*	0.17	692	1
49.93	0.39	5.08*	0.14	975	2
45.20	0.37	0.35	0.24	800	3
42.50	0.27	-2.35*	0.15	786	4
----RACE ----					
33.18	0.28	-11.67*	0.14	465	MINORITY
46.90	0.31	2.05*	0.04	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
36.16	0.33	-8.69*	0.09	1,128	LOW
49.42	0.30	4.57*	0.07	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
27.04	0.28	-17.81*	0.26	223	MINORITY LOW
38.20	0.22	-6.65*	0.12	843	NON-MINORITY LOW
38.85	0.23	-6.00*	0.15	242	MINORITY NON-LOW
50.83	0.15	5.98*	0.08	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #17

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
85.33	1.76			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
84.48	0.36	-0.85*	0.10	1,628		MALE
86.57	0.29	1.24*	0.08	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
78.57	0.40	-6.76*	0.15	692		1
88.55	0.39	3.22*	0.19	975		2
85.66	0.26	0.33*	0.15	800		3
86.53	0.38	1.20*	0.24	786		4
----RACE					----	
72.12	0.28	-13.21*	0.25	465		MINORITY
87.68	0.30	2.35*	0.06	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
78.61	0.33	-6.72*	0.12	1,128		LOW
88.86	0.25	3.53*	0.08	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
69.08	0.48	-16.25*	0.22	223		MINORITY LOW
81.26	0.25	-4.07*	0.13	843		NON-MINORITY LOW
74.93	0.35	-10.40*	0.22	242		MINORITY NON-LOW
90.58	0.29	5.25*	0.09	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE 118

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
56,96	1,90			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
57,92	0,34	0,96*	0,14	1,628		MALE
56,30	0,36	-0,66*	0,16	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
46,22	0,53	-10,74*	0,17	692		1
64,51	0,46	7,55*	0,28	975		2
54,06	0,50	-2,90*	0,22	800		3
59,51	0,47	2,55*	0,39	786		4
----RACE					----	
38,41	0,51	-18,55*	0,23	465		MINORITY
60,19	0,28	3,23*	0,09	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
48,64	0,26	-8,32*	0,17	1,128		LOW
61,33	0,46	4,37*	0,10	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
35,28	0,13	-21,68*	0,43	223		MINORITY LOW
52,00	0,25	-4,96*	0,24	843		NON-MINORITY LOW
41,31	0,60	-15,65*	0,18	242		MINORITY NON-LOW
63,88	0,41	6,92*	0,10	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #19

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
69,06	0,62			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
67,40	0,26	-1,66*	0,19	1,628		MALE
71,43	0,20	2,37*	0,21	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
59,21	0,43	-9,85*	0,47	692		1
76,10	0,58	7,04*	0,31	975		2
67,75	0,51	-1,31*	0,25	800		3
69,92	0,62	0,86	0,45	786		4
----RACE					----	
53,24	0,24	-15,82*	0,70	465		MINORITY
71,83	0,18	2,77*	0,12	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
59,70	0,17	-9,36*	0,24	1,128		LOW
73,97	0,20	4,91*	0,18	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
49,79	0,18	-19,27*	0,74	223		MINORITY LOW
62,43	0,11	-6,63*	0,30	843		NON-MINORITY LOW
56,43	0,81	-12,63*	0,43	242		MINORITY NON-LOW
76,08	0,22	7,02*	0,22	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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OBJECTIVE :20

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
58.96	1.51			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
62.46	0.20	3.50*	0.22	1,628		MALE
55.68	0.34	-3.28*	0.16	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
51.47	0.42	-7.49*	0.48	692		1
66.79	0.46	7.83*	0.35	975		2
56.23	0.46	-2.73*	0.37	800		3
58.55	0.38	-0.41	0.45	786		4
----RACE					----	
42.23	0.23	-16.73*	0.53	465		MINORITY
61.95	0.28	2.99*	0.11	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
51.57	0.37	-7.39*	0.29	1,128		LOW
62.85	0.30	3.89*	0.14	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
38.11	0.65	-20.85*	0.55	223		MINORITY LOW
54.87	0.33	-4.09*	0.32	843		NON-MINORITY LOW
46.05	0.30	-12.91*	0.42	242		MINORITY NON-LOW
65.16	0.25	6.20*	0.15	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #21

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
91.51	1.81			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
91.95	0.28	0.44*	0.05	1,628	MALE
91.27	0.09	-0.24*	0.06	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
89.18	0.29	-2.33*	0.11	692	1
93.40	0.30	1.89*	0.08	975	2
91.25	0.30	-0.26*	0.07	800	3
91.40	0.33	-0.11	0.10	786	4
----RACE					----
84.05	0.12	-7.46*	0.12	465	MINORITY
92.67	0.25	1.16*	0.02	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
88.44	0.29	-3.07*	0.09	1,128	LOW
93.12	0.28	1.61*	0.03	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
83.10	0.24	-8.41*	0.09	223	MINORITY LOW
89.46	0.18	-2.05*	0.09	843	NON-MINORITY LOW
84.94	0.12	-6.57*	0.14	242	MINORITY NON-LOW
94.12	0.07	2.61*	0.04	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE :22

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
87.26	1.62			3,253	ALL STUDENTS
----SEX OF THE STUDENT ----					
87.22	0.19	-0.04	0.12	1,628	MALE
87.51	0.26	0.25*	0.11	1,564	FEMALE
----SIZE OF THE COMMUNITY ----					
83.07	0.33	-4.19*	0.25	692	1
90.14	0.35	2.88*	0.13	975	2
88.08	0.34	0.82*	0.19	800	3
86.38	0.26	-0.88*	0.22	786	4
----RACE ----					
79.24	0.22	-8.02*	0.29	465	MINORITY
88.56	0.30	1.30*	0.05	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
82.74	0.30	-4.52*	0.18	1,128	LOW
89.63	0.33	2.37*	0.06	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
77.13	0.42	-10.13*	0.14	223	MINORITY LOW
83.86	0.20	-3.40*	0.19	843	NON-MINORITY LOW
81.19	0.35	-6.07*	0.24	242	MINORITY NON-LOW
90.69	0.31	3.43*	0.08	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"4TH GRADE MATH"

OBJECTIVE 123

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
66.38	1.24			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
63.70	0.21	-2.68*	0.17	1,628	MALE
69.98	0.22	3.60*	0.12	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
59.28	0.18	-7.10*	0.42	692	1
71.88	0.25	5.50*	0.35	975	2
66.36	0.31	-0.02	0.30	800	3
65.61	0.32	-0.77*	0.38	786	4
----RACE					----
53.18	0.20	-13.20*	0.32	465	MINORITY
68.99	0.24	2.61*	0.09	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
59.18	0.19	-7.20*	0.24	1,128	LOW
70.16	0.29	3.78*	0.13	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
52.86	0.30	-13.52*	0.37	223	MINORITY LOW
61.77	0.31	-4.61*	0.34	843	NON-MINORITY LOW
53.48	0.68	-12.90*	0.34	242	MINORITY NON-LOW
72.25	0.27	5.87*	0.17	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE #24

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
71.37	1.78			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
71.48	0.41	0.11	0.15	1,628		MALE
71.66	0.40	0.29*	0.10	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
63.74	0.55	-7.63*	0.21	692		1
75.64	0.58	4.27*	0.31	975		2
72.01	0.42	0.64*	0.31	800		3
71.73	0.27	0.36	0.25	786		4
----RACE					----	
53.31	0.50	-18.06*	0.31	465		MINORITY
74.58	0.16	3.21*	0.09	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
62.97	0.41	-8.40*	0.26	1,128		LOW
75.78	0.35	4.41*	0.12	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
49.07	0.92	-22.30*	0.29	223		MINORITY LOW
66.45	0.25	-4.92*	0.32	843		NON-MINORITY LOW
57.23	0.19	-14.14*	0.67	242		MINORITY NON-LOW
78.26	0.32	6.89*	0.15	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"4TH GRADE MATH"

OBJECTIVE 125

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
88.41	1.96			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
86.98	0.38	-1.43*	0.18	1,628	MALE
90.68	0.44	2.27*	0.12	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
82.49	0.45	-5.92*	0.32	692	1
90.28	0.58	1.87*	0.52	975	2
89.36	0.46	0.95*	0.29	800	3
89.88	0.61	1.47*	0.32	786	4
----RACE					----
78.85	0.39	-9.56*	0.37	465	MINORITY
90.43	0.23	2.02*	0.08	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
83.14	0.38	-5.27*	0.39	1,128	LOW
91.17	0.28	2.76*	0.13	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
76.30	0.51	-12.11*	0.44	223	MINORITY LOW
85.92	0.47	-2.49*	0.23	843	NON-MINORITY LOW
81.22	0.66	-7.19*	0.33	242	MINORITY NON-LOW
92.47	0.31	4.06*	0.14	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE :26

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
85.51	1.19			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
84.94	0.24	-0.57*	0.05	1,628	MALE
86.77	0.19	1.26*	0.04	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
81.87	0.21	-3.64*	0.11	692	1
88.37	0.18	2.86*	0.09	975	2
84.62	0.20	-0.89*	0.08	800	3
85.92	0.19	0.41*	0.09	786	4
----RACE					----
76.00	0.15	-9.51*	0.10	465	MINORITY
87.34	0.20	1.83*	0.03	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
80.67	0.24	-4.84*	0.09	1,128	LOW
88.05	0.12	2.54*	0.04	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
70.12	0.12	-15.39*	0.23	223	MINORITY LOW
83.64	0.20	-1.87*	0.07	843	NON-MINORITY LOW
81.43	0.16	-4.08*	0.11	242	MINORITY NON-LOW
89.01	0.11	3.50*	0.05	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"4TH GRADE MATH"

OBJECTIVE #27

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
83.44	0.13			3,253	ALL STUDENTS
----SEX OF THE STUDENT ----					
83.05	0.11	-0.39*	0.09	1,628	MALE
84.42	0.10	0.98*	0.08	1,564	FEMALE
----SIZE OF THE COMMUNITY ----					
76.11	0.41	-7.33*	0.21	692	1
86.80	0.29	3.36*	0.15	975	2
83.50	0.17	0.06	0.13	800	3
85.21	0.22	1.77*	0.18	786	4
----RACE ----					
66.79	0.41	-16.65*	0.10	465	MINORITY
86.38	0.08	2.94*	0.05	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
78.36	0.16	-5.08*	0.13	1,128	LOW
86.11	0.10	2.67*	0.06	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
64.34	0.41	-19.10*	0.12	223	MINORITY LOW
82.10	0.11	-1.34*	0.12	843	NON-MINORITY LOW
69.07	0.46	-14.37*	0.16	242	MINORITY NON-LOW
88.32	0.12	4.88*	0.07	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"4TH GRADE MATH"

OBJECTIVE #28

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
84.45	1.19			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
82,12	0.25	-2,33*	0,12	1,628		MALE
87,75	0.26	3,30*	0,10	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
81,03	0.29	-3,42*	0,28	692		1
84,93	0.45	0,48	0,28	975		2
84,60	0.30	0,15	0,16	800		3
86,40	0.33	1,95*	0,28	786		4
----RACE					----	
75,83	0.60	-8,62*	0,17	465		MINORITY
86,28	0,14	1,83*	0,07	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
81,29	0.33	-3,16*	0,19	1,128		LOW
86,11	0.22	1,66*	0,07	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
75,15	0.40	-9,30*	0,20	223		MINORITY LOW
83,49	0.29	-0,96*	0,22	843		NON-MINORITY LOW
76,45	0.22	-8,00*	0,57	242		MINORITY NON-LOW
87,54	0.25	3,09*	0,09	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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"4TH GRADE MATH"

OBJECTIVE :29

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
61.24	1.68			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
58.11	0.24	-3.13*	0.22	1,628		MALE
65.50	0.32	4.26*	0.18	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
55.59	0.27	-5.65*	0.68	692		1
64.59	0.46	3.35*	0.47	975		2
60.73	0.51	-0.51	0.39	800		3
62.28	0.53	1.04*	0.36	786		4
----RACE					----	
50.14	0.42	-11.10*	0.45	465		MINORITY
63.60	0.35	2.36*	0.11	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
55.26	0.22	-5.98*	0.33	1,128		LOW
64.38	0.39	3.14*	0.17	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
46.48	0.72	-14.76*	0.42	223		MINORITY LOW
58.81	0.34	-2.43*	0.28	843		NON-MINORITY LOW
53.52	0.34	-7.72*	0.46	242		MINORITY NON-LOW
65.77	0.36	4.53*	0.21	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

OBJECTIVE #30

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
69.83	0.96			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
68.53	0.26	-1.30*	0.24	1,628	MALE
71.91	0.36	2.08*	0.25	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
63.95	0.78	-5.88*	0.31	692	1
72.63	0.59	2.80*	0.43	975	2
69.87	0.46	0.04	0.26	800	3
71.14	0.37	1.31*	0.34	786	4
----RACE					----
50.42	0.77	-19.41*	0.59	465	MINORITY
73.35	0.25	3.52*	0.14	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
63.19	0.32	-6.64*	0.35	1,128	LOW
73.33	0.25	3.50*	0.21	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
45.61	0.73	-24.22*	0.28	223	MINORITY LOW
68.08	0.44	-1.75*	0.33	843	NON-MINORITY LOW
54.87	0.46	-14.96*	0.82	242	MINORITY NON-LOW
75.74	0.31	5.91*	0.27	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"4TH GRADE MATH"

OBJECTIVE :31

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
39.16	0.68			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
37.71	0.13	-1.45*	0.03	1,628		MALE
41.23	0.15	2.07*	0.03	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
36.46	0.14	-2.70*	0.08	692		1
41.41	0.13	2.25*	0.09	975		2
37.72	0.15	-1.44*	0.06	800		3
40.13	0.17	0.97*	0.07	786		4
----RACE					----	
29.59	0.09	-9.57*	0.11	465		MINORITY
40.99	0.14	1.83*	0.02	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
33.99	0.14	-5.17*	0.07	1,128		LOW
41.88	0.15	2.72*	0.03	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
27.46	0.13	-11.70*	0.13	223		MINORITY LOW
36.08	0.13	-3.08*	0.04	843		NON-MINORITY LOW
31.56	0.11	-7.60*	0.15	242		MINORITY NON-LOW
43.21	0.09	4.05*	0.03	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE : 1

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
93.54	0.74			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
92.31	0.70	-1.23*	0.28	1,337	MALE
94.71	0.49	1.17*	0.30	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
93.52	0.45	-0.02	0.54	519	1
93.73	0.76	0.19	0.54	937	2
93.48	0.52	-0.06	0.40	707	3
93.33	0.68	-0.21	0.36	724	4
----RACE					----
90.77	0.59	-2.77*	0.69	293	MINORITY
93.92	0.48	0.38*	0.13	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
93.18	0.41	-0.36	0.37	912	LOW
93.71	0.38	0.17	0.20	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
92.99	1.21	-0.55	0.89	141	MINORITY LOW
93.28	0.44	-0.26	0.46	768	NON-MINORITY LOW
88.63	1.24	-4.91*	0.93	152	MINORITY NON-LOW
94.19	0.38	0.65*	0.24	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE : 2

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
89,72	0,70			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
88,50	0,24	-1,22*	0,14	1,337		MALE
90,80	0,25	1,08*	0,19	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
88,44	0,45	-1,28*	0,42	519		1
90,98	0,35	1,26*	0,23	937		2
88,94	0,31	-0,78*	0,37	707		3
89,76	0,26	0,04	0,28	724		4
----RACE					----	
86,78	0,23	-2,94*	0,47	293		MINORITY
90,21	0,29	0,49*	0,05	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
87,81	0,33	-1,91*	0,21	912		LOW
90,62	0,19	0,90*	0,15	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
86,06	0,39	-3,66*	0,41	141		MINORITY LOW
88,52	0,37	-1,20*	0,21	768		NON-MINORITY LOW
87,47	0,40	-2,25*	0,56	152		MINORITY NON-LOW
90,92	0,28	1,20*	0,12	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE : 3

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
93,25	0,48			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
91,44	0,29	-1,81*	0,23	1,337	MALE
94,91	0,30	1,66*	0,16	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
90,68	0,27	-2,57*	0,34	519	1
94,74	0,39	1,49*	0,29	937	2
93,61	0,35	0,36	0,29	707	3
93,08	0,34	-0,17	0,29	724	4
----RACE					----
86,09	0,41	-7,16*	0,52	293	MINORITY
94,29	0,22	1,04*	0,07	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
90,57	0,40	-2,68*	0,29	912	LOW
94,52	0,21	1,27*	0,14	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
83,48	0,91	-9,77*	0,59	141	MINORITY LOW
92,32	0,46	-0,93*	0,30	768	NON-MINORITY LOW
88,60	0,59	-4,65*	0,63	152	MINORITY NON-LOW
95,12	0,20	1,87*	0,15	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE : 4

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
85.29	1.15			2,887	ALL STUDENTS
----SEX OF THE STUDENT				----	
84.50	0.33	-0.79*	0.32	1,337	MALE
86.11	0.57	0.82*	0.35	1,546	FEMALE
----SIZE OF THE COMMUNITY				----	
81.83	0.92	-3.46*	0.56	519	1
86.82	0.38	1.53*	0.60	937	2
85.85	0.65	0.56	0.29	707	3
85.66	0.71	0.37	0.48	724	4
----RACE				----	
74.45	0.78	-10.84*	0.87	293	MINORITY
86.89	0.54	1.60*	0.10	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
81.31	0.45	-3.98*	0.53	912	LOW
87.16	0.40	1.87*	0.24	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
73.45	0.66	-11.84*	1.32	141	MINORITY LOW
83.18	0.47	-2.11*	0.58	768	NON-MINORITY LOW
75.41	1.09	-9.88*	1.25	152	MINORITY NON-LOW
88.44	0.53	3.15*	0.27	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE : 5

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
90.89	1.39			2,887	ALL STUDENTS
----SEX OF THE STUDENT				----	
90.89	0.10	0.00	0.10	1,337	MALE
90.93	0.32	0.04	0.08	1,546	FEMALE
----SIZE OF THE COMMUNITY				----	
86.93	0.33	-3.96*	0.20	519	1
91.84	0.35	0.95*	0.15	937	2
91.81	0.35	0.92*	0.08	707	3
92.27	0.34	1.38*	0.12	724	4
----RACE				----	
80.99	0.14	-9.90*	0.21	293	MINORITY
92.32	0.11	1.43*	0.02	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
87.86	0.12	-3.03*	0.11	912	LOW
92.32	0.30	1.43*	0.04	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
81.02	0.16	-9.87*	0.26	141	MINORITY LOW
89.60	0.12	-1.29*	0.12	768	NON-MINORITY LOW
80.96	0.21	-9.93*	0.22	152	MINORITY NON-LOW
93.46	0.35	2.57*	0.04	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE : 6

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
58.31	1.26			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
58.62	0.22	0.31	0.36	1,337		MALE
58.00	0.30	-0.31	0.21	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
54.57	0.40	-3.74*	0.43	519		1
62.09	0.37	3.78*	0.43	937		2
57.37	0.48	-0.94	0.52	707		3
56.99	0.48	-1.32*	0.43	724		4
----RACE					----	
43.53	0.27	-14.78*	0.58	293		MINORITY
60.40	0.26	2.09*	0.10	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
54.56	0.32	-3.75*	0.43	912		LOW
60.07	0.24	1.76*	0.19	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
43.65	0.58	-14.66*	0.85	141		MINORITY LOW
57.06	0.30	-1.25*	0.41	768		NON-MINORITY LOW
43.42	0.50	-14.89*	0.79	152		MINORITY NON-LOW
61.81	0.44	3.50*	0.19	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE : 7

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
75.32	1.38			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
77.90	0.37	2.58*	0.31	1,337		MALE
73.20	0.53	-2.12*	0.23	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
70.06	0.72	-5.26*	0.55	519		1
78.15	0.69	2.83*	0.48	937		2
74.65	0.52	-0.67	0.48	707		3
76.58	0.49	1.26*	0.42	724		4
----RACE					----	
61.65	0.80	-13.67*	0.75	293		MINORITY
77.31	0.37	1.99*	0.13	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
68.50	0.41	-6.82*	0.51	912		LOW
78.53	0.49	3.21*	0.29	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
56.13	1.12	-19.19*	0.68	141		MINORITY LOW
71.35	0.37	-3.97*	0.47	768		NON-MINORITY LOW
66.96	1.04	-8.36*	0.74	152		MINORITY NON-LOW
79.82	0.58	4.50*	0.33	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE : 8

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
96.64	1.11			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
96.95	0.33	0.31	0.34	1,337		MALE
96.36	0.45	-0.28	0.21	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
95.66	0.84	-0.98	0.64	519		1
96.65	0.59	0.01	0.30	937		2
97.41	0.54	0.77	0.56	707		3
96.81	0.44	0.17	0.29	724		4
----RACE					----	
94.61	0.76	-2.03*	0.64	293		MINORITY
96.91	0.46	0.27*	0.08	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
96.27	0.29	-0.37	0.47	912		LOW
96.82	0.47	0.18	0.16	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
94.26	0.55	-2.38*	0.95	141		MINORITY LOW
96.71	0.35	0.07	0.38	768		NON-MINORITY LOW
94.95	0.86	-1.69	0.86	152		MINORITY NON-LOW
96.99	0.51	0.35*	0.17	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE : 9

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
92.10	1.35			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.70	0.21	-0.40*	0.16	1,337		MALE
92.52	0.25	0.42*	0.14	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
90.24	0.31	-1.86*	0.30	519		1
92.42	0.37	0.32	0.28	937		2
93.76	0.30	1.66*	0.24	707		3
91.76	0.37	-0.34*	0.17	724		4
----RACE					----	
82.56	0.34	-9.54*	0.38	293		MINORITY
93.42	0.43	1.32*	0.06	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
89.63	0.18	-2.47*	0.20	912		LOW
93.27	0.38	1.17*	0.10	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
82.75	0.41	-9.35*	0.46	141		MINORITY LOW
91.14	0.20	-0.96*	0.19	768		NON-MINORITY LOW
82.37	0.32	-9.73*	0.47	152		MINORITY NON-LOW
94.38	0.44	2.28*	0.11	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE :10

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
85.22	1.22			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
86.54	0.39	1.32*	0.25	1,337		MALE
84.16	0.51	-1.06*	0.21	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
80.73	0.68	-4.49*	0.48	519		1
87.15	0.70	1.93*	0.46	937		2
84.79	0.47	-0.43	0.51	707		3
86.89	0.39	1.67*	0.28	724		4
----RACE					----	
70.12	1.01	-15.10*	0.59	293		MINORITY
87.32	0.28	2.10*	0.08	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
80.42	0.49	-4.80*	0.31	912		LOW
87.48	0.50	2.26*	0.18	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
65.61	0.90	-19.61*	0.67	141		MINORITY LOW
83.79	0.36	-1.43*	0.32	768		NON-MINORITY LOW
74.46	0.51	-10.76*	0.70	152		MINORITY NON-LOW
88.81	0.29	3.59*	0.17	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE #11

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
83.57	1.60			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
83.14	0.60	-0.43	0.32	1,337	MALE
84.00	0.59	0.43	0.45	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
73.98	1.07	-9.59*	0.85	519	1
87.81	0.55	4.24*	0.65	937	2
85.60	0.56	2.03*	0.42	707	3
84.12	0.57	0.55	0.39	724	4
----RACE					----
68.83	0.75	-14.74*	1.00	293	MINORITY
85.65	0.58	2.08*	0.17	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
78.14	0.85	-5.43*	0.52	912	LOW
86.12	0.45	2.55*	0.21	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
67.87	1.59	-15.70*	1.23	141	MINORITY LOW
80.54	0.73	-3.03*	0.44	768	NON-MINORITY LOW
69.75	0.91	-13.82*	1.05	152	MINORITY NON-LOW
87.80	0.61	4.23*	0.23	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE #12

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
66.90	1.48			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
68.86	0.11	1.96*	0.07	1,337	MALE
65.25	0.18	-1.65*	0.07	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
53.90	0.23	-13.00*	0.22	519	1
71.60	0.24	4.70*	0.11	937	2
69.61	0.19	2.71*	0.16	707	3
69.28	0.20	2.38*	0.11	724	4
----RACE ----					
40.21	0.14	-26.69*	0.19	293	MINORITY
70.63	0.21	3.73*	0.03	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
56.87	0.11	-10.03*	0.09	912	LOW
71.62	0.39	4.72*	0.04	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
34.59	0.14	-32.31*	0.16	141	MINORITY LOW
61.80	0.12	-5.10*	0.11	768	NON-MINORITY LOW
45.62	0.15	-21.28*	0.21	152	MINORITY NON-LOW
74.33	0.38	7.43*	0.05	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE #13

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
85.75	1.28			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
87.32	0.25	1.57*	0.22	1,337	MALE
84.40	0.53	-1.35*	0.19	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
79.56	0.62	-6.19*	0.37	519	1
89.58	0.55	3.83*	0.29	937	2
87.76	0.56	2.01*	0.26	707	3
83.81	0.26	-1.94*	0.46	724	4
----RACE					----
69.69	0.61	-16.06*	0.67	293	MINORITY
87.94	0.28	2.19*	0.08	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
79.79	0.31	-5.96*	0.26	912	LOW
88.55	0.46	2.80*	0.13	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
66.48	0.49	-19.27*	0.67	141	MINORITY LOW
82.72	0.28	-3.03*	0.34	768	NON-MINORITY LOW
72.77	0.74	-12.98*	0.56	152	MINORITY NON-LOW
90.13	0.24	4.38*	0.16	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE :14

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
70.92	0.96			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
73.36	0.43	2.44*	0.42	1,337	MALE
68.82	0.50	-2.10*	0.38	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
60.98	1.11	-9.94*	1.06	519	1
76.16	0.88	5.24*	0.74	937	2
72.39	0.92	1.47*	0.59	707	3
70.84	0.49	-0.08	0.61	724	4
----RACE					----
44.10	0.82	-26.82*	1.19	293	MINORITY
74.73	0.57	3.81*	0.16	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
58.42	0.53	-12.50*	0.49	912	LOW
76.79	0.47	5.87*	0.29	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
37.57	1.48	-33.35*	0.87	141	MINORITY LOW
63.23	0.45	-7.69*	0.63	768	NON-MINORITY LOW
50.36	1.31	-20.56*	1.51	152	MINORITY NON-LOW
79.56	0.51	8.64*	0.34	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE #15

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
75,88	1,05			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
77,98	0,55	2,10*	0,52	1,337		MALE
74,10	0,66	-1,78*	0,36	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
66,55	0,59	-9,33*	1,21	519		1
80,10	0,77	4,22*	0,69	937		2
77,37	1,27	1,49	0,92	707		3
76,76	0,88	0,88	0,75	724		4
----RACE					----	
54,90	0,85	-20,98*	1,20	293		MINORITY
78,91	0,57	3,03*	0,20	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
66,54	0,73	-9,34*	0,70	912		LOW
80,27	0,55	4,39*	0,32	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
50,08	0,96	-25,80*	1,06	141		MINORITY LOW
70,29	0,61	-5,59*	0,85	768		NON-MINORITY LOW
59,53	1,18	-16,35*	1,52	152		MINORITY NON-LOW
82,53	0,63	6,65*	0,37	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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                                 "12TH GRADE MATH"
            OBJECTIVE #16

               SE OF      GROUP      SE OF      SAMPLE
 P-VALUE     P-VALUE     EFFECT     EFFECT      SIZE           REPORTING GROUP

  72.17        1.10                             2,887          ALL STUDENTS

----SEX OF THE STUDENT                                   ----
  71.55        0.27       -0.62*      0.18      1,337          MALE
  72.80        0.36        0.63*      0.19      1,546          FEMALE

----SIZE OF THE COMMUNITY                                ----
  63.18        0.50       -8.99*      0.29        519          1
  77.18        0.53        5.01*      0.35        937          2
  74.10        0.35        1.93*      0.31        707          3
  71.13        0.44       -1.04*      0.22        724          4

----RACE                                                 ----
  56.30        0.56      -15.87*      0.49        293          MINORITY
  74.34        0.40        2.17*      0.08      2,584          NON-MINORITY

----SOCIO-ECONOMIC STATUS                                ----
  64.56        0.31       -7.61*      0.21        912          LOW
  75.75        0.27        3.58*      0.13      1,975          NON-LOW

----RACE BY SOCIO-ECONOMIC STATUS                        ----
  52.60        0.33      -19.57*      0.54        141          MINORITY LOW
  67.26        0.36       -4.91*      0.22        768          NON-MINORITY LOW
  59.85        0.33      -12.32*      0.71        152          MINORITY NON-LOW
  77.32        0.33        5.15*      0.15      1,816          NON-MINORITY NON-LOW

*  INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL
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OBJECTIVE :17

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
91.00	1.57			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
90.76	0.27	-0.24	0.25	1,337		MALE
91.43	0.34	0.43*	0.21	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
87.65	0.33	-3.35*	0.51	519		1
90.94	0.39	-0.06	0.48	937		2
94.59	0.40	3.59*	0.46	707		3
90.76	0.43	-0.24	0.21	724		4
----RACE					----	
86.87	0.40	-4.13*	0.67	293		MINORITY
91.77	0.31	0.77*	0.08	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
88.73	0.55	-2.27*	0.38	912		LOW
92.07	0.35	1.07*	0.16	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
85.67	0.64	-5.33*	0.85	141		MINORITY LOW
89.80	0.52	-1.20*	0.40	768		NON-MINORITY LOW
88.03	0.46	-2.97*	0.79	152		MINORITY NON-LOW
92.60	0.52	1.60*	0.15	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #18

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
93.92	1.58			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
93.44	0.32	-0.48	0.28	1,337		MALE
94.32	0.61	0.40	0.31	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
90.63	0.90	-3.29*	0.55	519		1
95.39	0.51	1.47*	0.46	937		2
94.21	0.55	0.29	0.46	707		3
94.46	0.48	0.54	0.34	724		4
----RACE					----	
85.24	0.65	-8.68*	0.80	293		MINORITY
95.20	0.45	1.28*	0.12	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
91.09	0.44	-2.83*	0.46	912		LOW
95.25	0.50	1.33*	0.19	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
83.51	0.62	-10.41*	0.79	141		MINORITY LOW
93.16	0.48	-0.76	0.54	768		NON-MINORITY LOW
86.90	0.92	-7.02*	1.27	152		MINORITY NON-LOW
96.06	0.59	2.14*	0.20	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #19

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
70.25	1.60			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
73.84	0.54	3.59*	0.47	1,337	MALE
67.13	0.75	-3.12*	0.45	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
61.41	0.98	-8.84*	1.53	519	1
75.00	0.81	4.75*	1.08	937	2
71.58	2.04	1.33	0.95	707	3
70.02	0.60	-0.23	0.74	724	4
----RACE					----
43.64	1.18	-26.61*	1.25	293	MINORITY
74.00	0.73	3.75*	0.19	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
58.43	0.87	-11.82*	0.75	912	LOW
75.81	0.66	5.56*	0.38	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
36.66	1.61	-33.59*	0.94	141	MINORITY LOW
63.35	0.74	-6.90*	0.92	768	NON-MINORITY LOW
50.34	1.58	-19.91*	1.69	152	MINORITY NON-LOW
78.47	0.61	8.22*	0.41	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #20

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
58.98	1.59			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
65.22	0.42	6.24*	0.25	1,337	MALE
53.52	0.40	-5.46*	0.21	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
47.76	0.66	-11.22*	0.62	519	1
63.94	0.43	4.96*	0.30	937	2
60.62	0.45	1.64*	0.41	707	3
60.34	0.64	1.36*	0.38	724	4
----RACE					----
34.15	0.55	-24.83*	0.47	293	MINORITY
62.55	0.40	3.57*	0.10	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
49.37	0.29	-9.61*	0.27	912	LOW
63.50	0.46	4.52*	0.18	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
29.09	0.73	-29.89*	0.60	141	MINORITY LOW
54.21	0.35	-4.77*	0.34	768	NON-MINORITY LOW
39.01	0.66	-19.97*	0.73	152	MINORITY NON-LOW
66.06	0.49	7.08*	0.20	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE :21

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
46,24	1,35			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
55,34	0,46	9,10*	0,33	1,337		MALE
38,34	0,46	-7,90*	0,36	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
34,39	0,51	-11,85*	1,08	519		1
52,87	0,82	6,63*	0,69	937		2
45,25	0,48	-0,99	0,52	707		3
48,18	0,45	1,94*	0,57	724		4
----RACE					----	
26,22	0,48	-20,02*	0,57	293		MINORITY
49,19	0,60	2,95*	0,18	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
35,02	0,45	-11,22*	0,53	912		LOW
51,51	0,60	5,27*	0,27	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
26,26	0,82	-19,98*	0,78	141		MINORITY LOW
37,24	0,62	-9,00*	0,67	768		NON-MINORITY LOW
26,18	0,59	-20,06*	1,20	152		MINORITY NON-LOW
54,21	0,57	7,97*	0,27	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE #22

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
60.61	0.72			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
66.00	0.52	5.39*	0.46	1,337		MALE
55.90	0.45	-4.71*	0.48	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
52.97	0.60	-7.64*	1.19	519		1
64.90	0.94	4.29*	0.71	937		2
60.39	0.58	-0.22	0.76	707		3
61.46	0.47	0.85	0.57	724		4
----RACE					----	
39.97	0.82	-20.64*	0.84	293		MINORITY
63.54	0.50	2.93*	0.20	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
53.44	0.46	-7.17*	0.63	912		LOW
63.99	0.45	3.38*	0.33	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
41.19	0.68	-19.42*	1.56	141		MINORITY LOW
56.26	0.49	-4.35*	0.70	768		NON-MINORITY LOW
38.80	0.72	-21.81*	1.81	152		MINORITY NON-LOW
66.59	0.48	5.98*	0.40	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE #23

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
62.94	1.59			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
66.18	0.20	3.24*	0.18	1,337		MALE
60.03	0.24	-2.91*	0.12	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
51.23	0.45	-11.71*	0.24	519		1
66.27	0.38	3.33*	0.30	937		2
64.66	0.34	1.72*	0.29	707		3
67.13	0.49	4.19*	0.24	724		4
----RACE					----	
38.44	0.24	-24.50*	0.24	293		MINORITY
66.42	0.41	3.48*	0.05	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
55.55	0.19	-7.39*	0.28	912		LOW
66.42	0.40	3.48*	0.11	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
37.93	0.28	-25.01*	0.34	141		MINORITY LOW
59.71	0.22	-3.23*	0.27	768		NON-MINORITY LOW
38.94	0.31	-24.00*	0.20	152		MINORITY NON-LOW
69.24	0.25	6.30*	0.15	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE 124

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
72.85	1.04			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
76.25	0.32	3.40*	0.26	1,337		MALE
69.82	0.40	-3.03*	0.29	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
62.69	0.64	-10.16*	0.57	519		1
77.87	0.57	5.02*	0.50	937		2
75.29	0.89	2.44*	0.52	707		3
72.39	0.46	-0.46	0.41	724		4
----RACE					----	
56.31	0.89	-16.54*	0.67	293		MINORITY
75.18	0.34	2.33*	0.11	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
63.01	0.24	-9.84*	0.43	912		LOW
77.48	0.41	4.63*	0.23	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
48.47	0.43	-24.38*	0.97	141		MINORITY LOW
66.29	0.50	-6.56*	0.50	768		NON-MINORITY LOW
63.84	0.49	-9.01*	1.01	152		MINORITY NON-LOW
78.91	0.39	6.06*	0.25	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE #25

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
79.13	0.99			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
83.95	0.32	4.82*	0.39	1,337		MALE
74.86	0.60	-4.27*	0.36	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
71.44	0.62	-7.69*	0.40	519		1
82.67	0.57	3.54*	0.69	937		2
79.88	1.13	0.75	0.64	707		3
80.21	0.57	1.08*	0.38	724		4
----RACE					----	
56.14	0.65	-22.99*	0.98	293		MINORITY
82.41	0.45	3.28*	0.19	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
72.22	0.41	-6.91*	0.46	912		LOW
82.38	0.32	3.25*	0.20	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
51.44	1.35	-27.69*	1.09	141		MINORITY LOW
76.99	0.44	-2.14*	0.47	768		NON-MINORITY LOW
60.65	0.56	-18.48*	1.02	152		MINORITY NON-LOW
84.69	0.45	5.50*	0.23	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE #26

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
87.72	1.64			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
88.99	0.41	1.27*	0.35	1,337		MALE
86.59	0.72	-1.13*	0.38	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
80.75	0.97	-6.97*	0.59	519		1
88.64	0.73	0.92	0.60	937		2
89.64	0.65	1.92*	0.35	707		3
90.93	0.31	3.21*	0.35	724		4
----RACE					----	
71.11	1.24	-16.61*	0.68	293		MINORITY
90.13	0.61	2.41*	0.17	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
83.62	0.69	-4.10*	0.54	912		LOW
89.64	0.34	1.92*	0.25	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
65.79	1.68	-21.93*	1.15	141		MINORITY LOW
87.90	0.50	0.18	0.48	768		NON-MINORITY LOW
76.22	1.00	-11.50*	0.47	152		MINORITY NON-LOW
91.06	0.49	3.34*	0.29	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE :27

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
78.24	1.18			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
78.85	0.25	0.61*	0.22	1,337		MALE
77.75	0.32	-0.49*	0.20	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
67.77	0.42	-10.47*	0.35	519		1
80.63	0.45	2.39*	0.42	937		2
80.81	0.40	2.57*	0.32	707		3
81.86	0.39	3.62*	0.27	724		4
----RACE					----	
57.13	0.38	-21.11*	0.49	293		MINORITY
81.27	0.38	3.03*	0.06	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
69.83	0.27	-8.41*	0.24	912		LOW
82.19	0.37	3.95*	0.17	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
52.27	0.53	-25.97*	0.55	141		MINORITY LOW
73.97	0.25	-4.27*	0.24	768		NON-MINORITY LOW
61.79	0.34	-16.45*	0.55	152		MINORITY NON-LOW
84.34	0.46	6.10*	0.16	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE :28

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
65,54	0,60			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
70,06	0,43	4,52*	0,33	1,337	MALE
61,59	0,37	-3,95*	0,34	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
55,76	0,71	-9,78*	0,45	519	1
70,05	0,61	4,51*	0,44	937	2
67,58	0,76	2,04*	0,31	707	3
65,86	0,43	0,32	0,59	724	4
----RACE ----					
44,78	0,70	-20,76*	0,63	293	MINORITY
68,46	0,41	2,92*	0,12	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
57,09	0,72	-8,45*	0,42	912	LOW
69,51	0,36	3,97*	0,25	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
44,90	1,30	-20,64*	0,69	141	MINORITY LOW
59,85	0,84	-5,69*	0,45	768	NON-MINORITY LOW
44,66	0,73	-20,88*	0,91	152	MINORITY NON-LOW
72,08	0,39	6,54*	0,26	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE :29

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
84.74	0.78			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
85.63	0.47	0.89*	0.30	1,337		MALE
83.93	0.41	-0.81*	0.33	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
80.93	1.02	-3.81*	0.59	519		1
87.83	0.88	3.09*	0.63	937		2
83.93	0.46	-0.81	0.47	707		3
84.39	0.61	-0.35	0.38	724		4
----RACE					----	
70.69	1.12	-14.05*	0.75	293		MINORITY
86.71	0.44	1.97*	0.17	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
79.69	0.37	-5.05*	0.44	912		LOW
87.11	0.51	2.37*	0.18	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
68.39	0.96	-16.35*	1.00	141		MINORITY LOW
82.25	0.42	-2.49*	0.45	768		NON-MINORITY LOW
72.90	0.57	-11.84*	0.47	152		MINORITY NON-LOW
88.58	0.55	3.84*	0.20	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE #30

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
82.99	0.36			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
86.90	0.09	3.91*	0.08	1,337		MALE
79.51	0.15	-3.48*	0.08	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
74.53	0.22	-8.46*	0.10	519		1
86.47	0.21	3.48*	0.14	937		2
82.55	0.14	-0.44*	0.09	707		3
86.00	0.08	3.01*	0.15	724		4
----RACE					----	
62.23	0.15	-20.76*	0.19	293		MINORITY
85.98	0.11	2.99*	0.03	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
77.17	0.11	-5.82*	0.12	912		LOW
85.72	0.14	2.73*	0.05	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
59.48	0.26	-23.51*	0.22	141		MINORITY LOW
81.47	0.14	-1.52*	0.11	768		NON-MINORITY LOW
64.87	0.09	-18.12*	0.35	152		MINORITY NON-LOW
87.88	0.15	4.89*	0.07	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE :31

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
79.52	1.63			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
83.02	0.31	3.50*	0.26	1,337		MALE
76.44	0.33	-3.08*	0.26	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
72.13	0.66	-7.39*	0.38	519		1
82.91	0.51	3.39*	0.32	937		2
81.22	0.37	1.70*	0.41	707		3
79.62	0.41	0.10	0.37	724		4
----RACE					----	
62.14	0.69	-17.38*	0.43	293		MINORITY
81.98	0.39	2.46*	0.09	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
73.33	0.39	-6.19*	0.30	912		LOW
82.43	0.51	2.91*	0.15	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
61.18	1.06	-18.34*	0.58	141		MINORITY LOW
76.35	0.28	-3.17*	0.33	768		NON-MINORITY LOW
63.06	0.76	-16.46*	0.48	152		MINORITY NON-LOW
84.35	0.43	4.83*	0.18	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE #32

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
82,00	1,08			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
80,10	0,56	-1,90*	0,27	1,337		MALE
83,66	0,53	1,66*	0,31	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
73,63	0,87	-8,37*	0,40	519		1
86,59	0,74	4,59*	0,53	937		2
83,32	0,54	1,32*	0,42	707		3
81,59	0,53	-0,41	0,61	724		4
----RACE					----	
69,29	0,93	-12,71*	0,78	293		MINORITY
83,85	0,52	1,85*	0,13	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
76,30	0,59	-5,70*	0,35	912		LOW
84,68	0,52	2,68*	0,24	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
67,82	1,21	-14,18*	0,84	141		MINORITY LOW
78,38	0,39	-3,62*	0,44	768		NON-MINORITY LOW
70,69	0,70	-11,31*	0,67	152		MINORITY NON-LOW
86,15	0,58	4,15*	0,28	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE :33

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
56.99	1.22			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
60.35	0.68	3.36*	0.50	1,337	MALE
54.04	0.58	-2.95*	0.43	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
46.84	0.67	-10.15*	0.88	519	1
66.21	0.90	9.22*	0.74	937	2
56.91	0.72	-0.08	0.81	707	3
52.63	0.77	-4.36*	1.36	724	4
----RACE					----
36.98	0.83	-20.01*	1.35	293	MINORITY
59.78	0.71	2.79*	0.29	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
44.93	0.58	-12.06*	0.72	912	LOW
62.66	0.60	5.67*	0.50	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
35.23	1.13	-21.76*	0.97	141	MINORITY LOW
47.20	0.66	-9.79*	0.78	768	NON-MINORITY LOW
38.66	1.11	-18.33*	1.40	152	MINORITY NON-LOW
65.06	0.61	8.07*	0.57	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

OBJECTIVE :34

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
90.76	0.82			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
90.35	0.16	-0.41*	0.18	1,337		MALE
91.10	0.37	0.34*	0.16	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
85.50	0.52	-5.26*	0.16	519		1
92.58	0.25	1.82*	0.25	937		2
91.59	0.43	0.83*	0.20	707		3
92.13	0.17	1.37*	0.34	724		4
----RACE					----	
85.24	0.59	-5.52*	0.48	293		MINORITY
91.59	0.27	0.83*	0.06	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
88.13	0.40	-2.63*	0.23	912		LOW
92.00	0.28	1.24*	0.15	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
83.09	0.55	-7.67*	0.62	141		MINORITY LOW
89.21	0.23	-1.55*	0.18	768		NON-MINORITY LOW
87.30	0.41	-3.46*	0.41	152		MINORITY NON-LOW
92.60	0.27	1.84*	0.15	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE :35

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
67.98	1.69			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
67.48	0.45	-0.50	0.40	1,337		MALE
68.39	0.61	0.41	0.36	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
54.99	0.65	-12.99*	0.43	519		1
70.18	0.75	2.20*	0.44	937		2
72.14	0.53	4.16*	0.62	707		3
72.70	0.73	4.72*	0.34	724		4
----RACE					----	
46.59	0.74	-21.39*	0.48	293		MINORITY
71.08	0.42	3.10*	0.12	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
62.37	0.46	-5.61*	0.45	912		LOW
70.62	0.57	2.64*	0.17	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
42.86	0.43	-25.12*	1.40	141		MINORITY LOW
66.99	0.46	-0.99	0.67	768		NON-MINORITY LOW
50.17	1.11	-17.81*	0.87	152		MINORITY NON-LOW
72.80	0.49	4.82*	0.21	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE #36

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
34.82	0.46			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
40.60	0.55	5.78*	0.51	1,337		MALE
29.78	0.50	-5.04*	0.33	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
27.29	1.01	-7.53*	0.85	519		1
40.37	0.66	5.55*	0.66	937		2
33.29	0.55	-1.53*	0.71	707		3
34.92	0.70	0.10	0.68	724		4
----RACE					----	
20.51	0.93	-14.31*	0.81	293		MINORITY
36.86	0.45	2.04*	0.19	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
24.95	0.61	-9.87*	0.45	912		LOW
39.45	0.42	4.63*	0.28	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
18.99	0.72	-15.83*	0.94	141		MINORITY LOW
26.37	0.64	-8.45*	0.48	768		NON-MINORITY LOW
21.96	1.20	-12.86*	1.02	152		MINORITY NON-LOW
41.27	0.51	6.45*	0.33	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE #37

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
73.46	1.19			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
75.33	0.08	1.87*	0.05	1,337	MALE
71.78	0.33	-1.68*	0.05	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
62.49	0.35	-10.97*	0.14	519	1
78.94	0.34	5.48*	0.09	937	2
74.58	0.33	1.12*	0.07	707	3
74.30	0.29	0.84*	0.08	724	4
----RACE					----
45.98	0.07	-27.48*	0.12	293	MINORITY
77.38	0.24	3.92*	0.02	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
61.48	0.05	-11.98*	0.07	912	LOW
79.09	0.23	5.63*	0.04	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
40.55	0.11	-32.91*	0.20	141	MINORITY LOW
66.22	0.06	-7.24*	0.11	768	NON-MINORITY LOW
51.19	0.17	-22.27*	0.19	152	MINORITY NON-LOW
82.06	0.31	8.60*	0.04	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE #38

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
86.16	1.73			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
86.06	0.22	-0.10	0.17	1,337	MALE
86.30	0.47	0.14	0.19	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
82.30	0.65	-3.86*	0.36	519	1
87.45	0.54	1.29*	0.21	937	2
87.36	0.53	1.20*	0.23	707	3
86.66	0.54	0.50	0.30	724	4
----RACE					----
79.17	0.61	-6.99*	0.39	293	MINORITY
87.26	0.41	1.10*	0.08	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
83.03	0.23	-3.13*	0.21	912	LOW
87.64	0.42	1.48*	0.11	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
77.13	0.84	-9.03*	0.44	141	MINORITY LOW
84.67	0.29	-1.49*	0.20	768	NON-MINORITY LOW
81.13	0.55	-5.03*	0.50	152	MINORITY NON-LOW
88.34	0.42	2.18*	0.11	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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"12TH GRADE MATH"

OBJECTIVE #39

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
88.04	1.67			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
90.30	0.24	2.26*	0.21	1,337		MALE
86.04	0.62	-2.00*	0.23	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
80.69	0.73	-7.35*	0.42	519		1
90.83	0.58	2.79*	0.42	937		2
88.81	0.62	0.77	0.48	707		3
89.91	0.58	1.87*	0.40	724		4
----RACE					----	
71.10	0.87	-16.94*	0.60	293		MINORITY
90.50	0.47	2.46*	0.10	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
82.66	0.39	-5.38*	0.38	912		LOW
90.57	0.34	2.53*	0.13	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
66.07	0.92	-21.97*	0.77	141		MINORITY LOW
86.54	0.40	-1.50*	0.59	768		NON-MINORITY LOW
75.94	0.73	-12.10*	0.51	152		MINORITY NON-LOW
92.16	0.49	4.12*	0.16	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE 140

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
89.44	1.83			2,887	ALL STUDENTS
----SEX OF THE STUDENT				----	
88.48	0.41	-0.96*	0.31	1,337	MALE
90.35	0.74	0.91*	0.32	1,546	FEMALE
----SIZE OF THE COMMUNITY				----	
84.78	0.99	-4.66*	0.55	519	1
89.83	0.73	0.39	0.59	937	2
91.63	0.82	2.19*	0.32	707	3
91.07	0.61	1.63*	0.33	724	4
----RACE				----	
76.04	0.63	-13.40*	0.92	293	MINORITY
91.36	0.71	1.92*	0.14	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
85.78	0.36	-3.66*	0.43	912	LOW
91.16	0.73	1.72*	0.16	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
73.02	0.90	-16.42*	0.79	141	MINORITY LOW
88.71	0.40	-0.73	0.42	768	NON-MINORITY LOW
78.94	1.22	-10.50*	0.71	152	MINORITY NON-LOW
92.47	0.64	3.03*	0.17	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

OBJECTIVE :41

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
89.09	0.96			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
89.19	0.20	0.10	0.11	1,337		MALE
89.01	0.33	-0.08	0.14	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
85.98	0.38	-3.11*	0.22	519		1
90.63	0.40	1.54*	0.21	937		2
88.96	0.38	-0.13	0.20	707		3
89.78	0.30	0.69*	0.13	724		4
----RACE					----	
82.42	0.24	-6.67*	0.33	293		MINORITY
90.08	0.20	0.99*	0.03	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
86.03	0.18	-3.06*	0.17	912		LOW
90.53	0.34	1.44*	0.08	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
81.06	0.30	-8.03*	0.38	141		MINORITY LOW
87.17	0.20	-1.92*	0.21	768		NON-MINORITY LOW
83.73	0.40	-5.36*	0.47	152		MINORITY NON-LOW
91.31	0.30	2.22*	0.06	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

OBJECTIVE : 1

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
84.34	2.03			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
84.32	0.33	-0.02	0.29	1,450		MALE
84.43	0.55	0.09	0.27	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
78.65	0.70	-5.69*	0.69	557		1
87.41	0.55	3.07*	0.64	919		2
84.77	0.51	0.43	0.70	708		3
84.38	0.58	0.04	0.25	731		4
----RACE					----	
72.59	0.78	-11.75*	0.84	337		MINORITY
85.97	0.34	1.63*	0.17	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
79.81	0.43	-4.53*	0.52	993		LOW
86.70	0.37	2.36*	0.30	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
68.45	0.80	-15.89*	1.58	168		MINORITY LOW
82.39	0.47	-1.95*	0.31	816		NON-MINORITY LOW
77.00	1.49	-7.34*	0.91	169		MINORITY NON-LOW
87.64	0.38	3.30*	0.39	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

OBJECTIVE : 2

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
63,81	0,83			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
67,32	0,54	3,51*	0,36	1,450		MALE
60,39	0,61	-3,42*	0,34	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
55,20	1,70	-8,61*	1,45	557		1
68,66	0,98	4,85*	0,71	919		2
66,33	0,45	2,52*	0,66	708		3
61,77	0,73	-2,04*	0,29	731		4
----RACE					----	
42,53	1,19	-21,28*	0,49	337		MINORITY
66,76	0,61	2,95*	0,24	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
56,39	0,46	-7,42*	0,56	993		LOW
67,66	0,68	3,85*	0,24	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
37,39	1,34	-26,42*	0,74	168		MINORITY LOW
60,60	0,70	-3,21*	0,45	816		NON-MINORITY LOW
48,00	0,87	-15,81*	1,17	169		MINORITY NON-LOW
69,62	0,65	5,81*	0,45	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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"12TH GRADE SCIENCE"

OBJECTIVE # 3

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
30,43	0,98			2,915	ALL STUDENTS
----SEX OF THE STUDENT				----	
30,47	0,61	0,04	0,27	1,450	MALE
30,39	0,65	-0,04	0,23	1,457	FEMALE
----SIZE OF THE COMMUNITY				----	
26,87	0,97	-3,56*	0,65	557	1
34,13	0,78	3,70*	0,44	919	2
30,07	0,73	-0,36	0,77	708	3
28,31	0,79	-2,12*	0,15	731	4
----RACE				----	
25,11	0,98	-5,32*	0,74	337	MINORITY
31,09	0,59	0,66*	0,10	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
27,78	0,69	-2,65*	0,55	993	LOW
31,80	0,65	1,37*	0,28	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
23,07	0,91	-7,36*	1,52	168	MINORITY LOW
28,64	0,71	-1,79*	0,33	816	NON-MINORITY LOW
27,29	1,38	-3,14*	1,03	169	MINORITY NON-LOW
32,23	0,62	1,80*	0,22	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

OBJECTIVE : 4

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
63.33	0.94			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
65.51	0.27	2.18*	0.16	1,450		MALE
61.32	0.23	-2.01*	0.11	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
53.88	0.44	-9.45*	0.30	557		1
67.40	0.38	4.07*	0.18	919		2
68.07	0.29	4.74*	0.30	708		3
61.19	0.33	-2.14*	0.16	731		4
----RACE					----	
36.36	0.35	-26.97*	0.36	337		MINORITY
66.99	0.22	3.66*	0.05	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
54.21	0.23	-9.12*	0.18	993		LOW
68.08	0.27	4.75*	0.07	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
29.60	0.42	-33.73*	0.44	168		MINORITY LOW
59.66	0.18	-3.67*	0.15	816		NON-MINORITY LOW
43.56	0.34	-19.77*	0.42	169		MINORITY NON-LOW
70.40	0.35	7.07*	0.10	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

OBJECTIVE : 5

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
52.45	1.09			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
48.14	0.42	-4.31*	0.18	1,450		MALE
56.82	0.41	4.37*	0.12	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
55.30	0.83	2.85*	0.28	557		1
53.38	0.53	0.93*	0.42	919		2
47.04	0.45	-5.41*	0.28	708		3
53.54	0.53	1.09*	0.25	731		4
----RACE					----	
56.02	0.74	3.57*	0.55	337		MINORITY
52.00	0.38	-0.45*	0.08	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
51.17	0.42	-1.28*	0.26	993		LOW
53.12	0.44	0.67*	0.12	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
59.56	0.87	7.11*	0.67	168		MINORITY LOW
49.70	0.48	-2.75*	0.24	816		NON-MINORITY LOW
52.25	1.18	-0.20	0.44	169		MINORITY NON-LOW
53.06	0.35	0.61*	0.14	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

OBJECTIVE : 6

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
40.04	0.90			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
43.96	0.42	3.92*	0.58	1,450	MALE
36.31	0.57	-3.73*	0.33	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
36.15	0.64	-3.89*	0.62	557	1
43.75	0.86	3.71*	0.58	919	2
40.32	1.26	0.28	0.59	708	3
37.63	0.54	-2.41*	0.42	731	4
----RACE					----
27.69	0.83	-12.35*	0.84	337	MINORITY
41.73	0.62	1.69*	0.20	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
31.89	0.52	-8.15*	0.50	993	LOW
44.28	0.68	4.24*	0.30	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
29.67	1.09	-10.37*	0.57	168	MINORITY LOW
32.30	0.54	-7.74*	0.61	816	NON-MINORITY LOW
25.58	0.59	-14.46*	1.17	169	MINORITY NON-LOW
46.11	0.68	6.07*	0.31	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE : 7

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
53,28	1,00			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
58,00	0,48	4,72*	0,37	1,450		MALE
48,63	0,58	-4,65*	0,48	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
49,01	0,83	-4,27*	1,35	557		1
55,67	0,59	2,39*	0,70	919		2
55,50	0,54	2,22*	0,67	708		3
51,38	0,55	-1,90*	0,35	731		4
----RACE					----	
33,08	1,25	-20,20*	1,41	337		MINORITY
56,07	0,43	2,79*	0,18	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
45,98	0,46	-7,30*	0,59	993		LOW
57,07	0,45	3,79*	0,43	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
26,07	1,23	-27,21*	0,65	168		MINORITY LOW
50,62	0,44	-2,66*	0,44	816		NON-MINORITY LOW
40,54	0,71	-12,74*	1,54	169		MINORITY NON-LOW
58,60	0,40	5,32*	0,49	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

OBJECTIVE : 8

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
72.13	1.41			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
76.01	0.76	3.88*	0.38	1,450	MALE
68.18	0.56	-3.95*	0.40	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
62.98	1.29	-9.15*	1.51	557	1
74.74	0.98	2.61*	0.65	919	2
75.92	0.40	3.79*	0.53	708	3
72.79	0.82	0.66*	0.33	731	4
----RACE					----
56.19	0.63	-15.94*	0.89	337	MINORITY
74.28	0.71	2.15*	0.16	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
66.54	0.48	-5.59*	0.42	993	LOW
75.03	0.66	2.90*	0.24	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
49.84	0.75	-22.29*	1.83	168	MINORITY LOW
70.33	0.57	-1.80*	0.42	816	NON-MINORITY LOW
62.97	1.27	-9.16*	0.85	169	MINORITY NON-LOW
76.12	0.72	3.99*	0.30	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE : 9

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
73,87	0,87			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
79,04	0,59	5,17*	0,43	1,450		MALE
68,75	0,64	-5,12*	0,38	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
57,85	0,89	-16,02*	0,87	557		1
79,97	1,04	6,10*	0,76	919		2
76,88	0,56	3,01*	0,93	708		3
76,08	0,87	2,21*	0,52	731		4
----RACE					----	
49,49	1,73	-24,38*	0,60	337		MINORITY
77,25	0,63	3,38*	0,15	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
64,66	1,00	-9,21*	0,43	993		LOW
78,66	0,69	4,79*	0,23	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
41.10	2,30	-32,77*	1,19	168		MINORITY LOW
70,05	0,48	-3,82*	0,50	816		NON-MINORITY LOW
58,43	1,99	-15,44*	1,29	169		MINORITY NON-LOW
80,60	0,68	6,73*	0,35	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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OBJECTIVE #10

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
61,76	0,43			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
63,06	0,19	1,30*	0,15	1,450		MALE
60,74	0,24	-1,02*	0,08	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
54,03	0,43	-7,73*	0,44	557		1
65,60	0,32	3,84*	0,27	919		2
64,70	0,36	2,94*	0,24	708		3
60,07	0,48	-1,69*	0,12	731		4
----RACE					----	
45,33	0,31	-16,43*	0,21	337		MINORITY
64,07	0,20	2,31*	0,05	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
54,97	0,23	-6,79*	0,22	993		LOW
65,28	0,24	3,52*	0,08	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
40,64	0,18	-21,12*	0,33	168		MINORITY LOW
58,30	0,26	-3,46*	0,23	816		NON-MINORITY LOW
50,34	0,60	-11,42*	0,40	169		MINORITY NON-LOW
66,76	0,25	5,00*	0,09	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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OBJECTIVE #11

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
35.38	0.36			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
37.01	0.28	1.63*	0.17	1,450	MALE
34.01	0.28	-1.37*	0.24	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
27.30	0.72	-8.08*	0.79	557	1
40.63	0.41	5.25*	0.32	919	2
35.20	0.42	-0.18	0.47	708	3
34.77	0.41	-0.61*	0.30	731	4
----RACE					----
23.96	0.52	-11.42*	0.40	337	MINORITY
36.97	0.24	1.59*	0.11	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
29.67	0.31	-5.71*	0.29	993	LOW
38.34	0.28	2.96*	0.19	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
20.01	0.24	-15.37*	0.98	168	MINORITY LOW
32.09	0.37	-3.29*	0.23	816	NON-MINORITY LOW
28.17	1.21	-7.21*	0.55	169	MINORITY NON-LOW
39.24	0.29	3.86*	0.24	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #12

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
94.59	1.20			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.89	0.38	-2.70*	0.24	1,450		MALE
97.20	0.43	2.61*	0.24	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
93.39	0.45	-1.20*	0.49	557		1
94.23	0.36	-0.36	0.31	919		2
95.03	0.26	0.44	0.32	708		3
95.80	0.50	1.21*	0.17	731		4
----RACE					----	
87.52	0.79	-7.07*	0.61	337		MINORITY
95.64	0.38	1.05*	0.07	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
92.39	0.36	-2.20*	0.28	993		LOW
95.74	0.24	1.15*	0.18	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
84.94	0.51	-9.65*	0.67	168		MINORITY LOW
94.15	0.43	-0.44	0.35	816		NON-MINORITY LOW
90.26	0.59	-4.33*	0.61	169		MINORITY NON-LOW
96.34	0.26	1.75*	0.16	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #13

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
81.31	1.43			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
80.24	0.60	-1.07*	0.26	1,450		MALE
82.38	0.41	1.07*	0.40	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
77.22	0.83	-4.09*	0.86	557		1
82.84	0.67	1.53*	0.67	919		2
81.51	0.59	0.20	0.39	708		3
82.45	0.37	1.14*	0.48	731		4
----RACE					----	
76.88	0.97	-4.43*	0.42	337		MINORITY
81.91	0.59	0.60*	0.14	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
80.38	0.54	-0.93*	0.34	993		LOW
81.79	0.60	0.48	0.28	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
77.09	0.90	-4.22*	0.80	168		MINORITY LOW
80.99	0.62	-0.32	0.43	816		NON-MINORITY LOW
76.66	1.66	-4.65*	0.84	169		MINORITY NON-LOW
82.34	0.61	1.03*	0.29	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #14

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
42.49	1.06			2,915	ALL STUDENTS
----SEX OF THE STUDENT ----					
47.14	0.68	4.65*	0.43	1,450	MALE
38.12	0.61	-4.37*	0.36	1,457	FEMALE
----SIZE OF THE COMMUNITY ----					
37.49	1.53	-5.00*	0.72	557	1
47.13	1.04	4.64*	0.38	919	2
44.87	0.59	2.38*	0.84	708	3
37.69	0.77	-4.80*	0.49	731	4
----RACE ----					
27.28	0.81	-15.21*	0.99	337	MINORITY
44.74	0.75	2.25*	0.19	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
34.38	0.53	-8.11*	0.49	993	LOW
46.70	0.81	4.21*	0.28	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
27.11	0.97	-15.38*	0.81	168	MINORITY LOW
36.20	0.71	-6.29*	0.57	816	NON-MINORITY LOW
27.46	0.68	-15.03*	1.27	169	MINORITY NON-LOW
48.71	0.86	6.22*	0.39	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE :15

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
59.92	1.41			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
59.01	0.51	-0.91*	0.30	1,450		MALE
60.77	0.80	0.85*	0.34	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
53.93	1.16	-5.99*	0.43	557		1
62.75	0.69	2.83*	0.59	919		2
59.66	0.86	-0.26	0.47	708		3
61.21	0.71	1.29*	0.06	731		4
----RACE					----	
47.53	0.97	-12.39*	0.81	337		MINORITY
61.54	0.60	1.62*	0.15	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
55.83	0.75	-4.09*	0.36	993		LOW
62.04	0.56	2.12*	0.29	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
45.26	1.53	-14.66*	0.84	168		MINORITY LOW
57.96	0.79	-1.96*	0.38	816		NON-MINORITY LOW
49.94	0.95	-9.98*	1.08	169		MINORITY NON-LOW
63.20	0.61	3.28*	0.40	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #16

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
21.00	0.16			2,915	ALL STUDENTS
----SEX OF THE STUDENT				----	
28.06	0.14	7.06*	0.10	1,450	MALE
14.00	0.14	-7.00*	0.10	1,457	FEMALE
----SIZE OF THE COMMUNITY				----	
15.44	0.33	-5.56*	0.37	557	1
25.25	0.19	4.25*	0.13	919	2
20.77	0.19	-0.23	0.20	708	3
19.75	0.19	-1.25*	0.09	731	4
----RACE				----	
15.86	0.24	-5.14*	0.20	337	MINORITY
21.78	0.13	0.78*	0.06	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
16.28	0.16	-4.72*	0.16	993	LOW
23.46	0.13	2.46*	0.10	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
14.41	0.25	-6.59*	0.26	168	MINORITY LOW
16.65	0.18	-4.35*	0.17	816	NON-MINORITY LOW
17.40	0.17	-3.60*	0.21	169	MINORITY NON-LOW
24.16	0.14	3.16*	0.11	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #17

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
66.49	0.27			2,915	ALL STUDENTS
----SEX OF THE STUDENT ----					
71.34	0.28	4.85*	0.18	1,450	MALE
61.83	0.32	-4.66*	0.15	1,457	FEMALE
----SIZE OF THE COMMUNITY ----					
59.44	0.75	-7.05*	0.73	557	1
68.76	0.31	2.27*	0.39	919	2
66.91	0.27	0.42	0.40	708	3
68.95	0.48	2.46*	0.15	731	4
----RACE ----					
50.43	0.97	-16.06*	0.47	337	MINORITY
68.65	0.23	2.16*	0.09	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
63.16	0.45	-3.33*	0.27	993	LOW
68.22	0.27	1.73*	0.14	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
49.76	0.42	-16.73*	0.71	168	MINORITY LOW
66.11	0.36	-0.38	0.32	816	NON-MINORITY LOW
51.15	0.81	-15.34*	0.56	169	MINORITY NON-LOW
69.83	0.30	3.34*	0.14	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #18

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
45.04	1.30			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
49.44	0.45	4.40*	0.31	1,450		MALE
40.71	0.57	-4.33*	0.45	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
44.07	1.16	-0.97*	0.41	557		1
49.02	0.51	3.98*	0.32	919		2
43.04	0.36	-2.00*	0.45	708		3
41.72	0.45	-3.32*	0.35	731		4
----RACE					----	
38.60	1.13	-6.44*	0.75	337		MINORITY
45.97	0.42	0.93*	0.13	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
40.45	0.39	-4.59*	0.40	993		LOW
47.42	0.52	2.38*	0.31	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
39.22	0.85	-5.82*	0.92	168		MINORITY LOW
41.03	0.41	-4.01*	0.48	816		NON-MINORITY LOW
37.94	0.68	-7.10*	0.84	169		MINORITY NON-LOW
48.26	0.48	3.22*	0.28	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE 119

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
55,68	1,29			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
58,70	0,46	3,02*	0,26	1,450		MALE
52,71	0,60	-2,97*	0,13	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
50,46	0,56	-5,22*	1,19	557		1
58,04	0,84	2,36*	0,34	919		2
56,44	0,67	0,76*	0,38	708		3
56,05	0,46	0,37	0,24	731		4
----RACE					----	
45,31	0,66	-10,37*	0,73	337		MINORITY
57,16	0,66	1,48*	0,10	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
51,63	0,35	-4,05*	0,42	993		LOW
57,78	0,58	2,10*	0,18	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
43,69	0,89	-11,99*	0,75	168		MINORITY LOW
53,55	0,43	-2,13*	0,26	816		NON-MINORITY LOW
47,04	0,71	-8,64*	0,51	169		MINORITY NON-LOW
58,83	0,62	3,15*	0,23	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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OBJECTIVE :20

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
60.88	0.75			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
64.07	0.62	3.19*	0.48	1,450		MALE
57.73	0.50	-3.15*	0.31	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
49.12	1.55	-11.76*	1.08	557		1
64.53	0.96	3.65*	0.66	919		2
61.94	0.71	1.06	0.58	708		3
64.84	0.81	3.96*	0.58	731		4
----RACE					----	
32.35	0.70	-28.53*	1.53	337		MINORITY
64.72	0.63	3.84*	0.14	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
52.01	0.65	-8.87*	0.66	993		LOW
65.49	0.54	4.61*	0.30	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
23.96	1.27	-36.92*	1.48	168		MINORITY LOW
58.15	0.81	-2.73*	0.53	816		NON-MINORITY LOW
41.28	1.69	-19.60*	0.74	169		MINORITY NON-LOW
67.77	0.54	6.89*	0.39	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE :21

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
68.65	1.59			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
68.01	0.73	-0.64	0.39	1,450		MALE
69.45	0.80	0.80	0.50	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
64.46	1.49	-4.19*	2.09	557		1
69.94	0.82	1.29*	0.59	919		2
68.35	1.28	-0.30	0.78	708		3
70.72	1.02	2.07*	0.71	731		4
----RACE					----	
53.72	0.65	-14.93*	1.64	337		MINORITY
70.66	0.74	2.01*	0.17	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
62.17	0.55	-6.48*	0.67	993		LOW
72.02	0.75	3.37*	0.36	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
46.36	0.90	-22.29*	1.77	168		MINORITY LOW
65.75	0.78	-2.90*	0.49	816		NON-MINORITY LOW
61.56	1.51	-7.09*	2.00	169		MINORITY NON-LOW
72.95	0.78	4.30*	0.39	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #22

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
77.35	1.59			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
77.41	0.22	0.06	0.07	1,450	MALE
77.22	0.38	-0.13	0.12	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
75.37	0.44	-1.98*	0.27	557	1
77.99	0.45	0.64*	0.22	919	2
79.73	0.43	2.38*	0.21	708	3
75.94	0.43	-1.41*	0.07	731	4
----RACE					----
69.13	0.52	-8.22*	0.25	337	MINORITY
78.38	0.16	1.03*	0.04	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
72.40	0.16	-4.95*	0.11	993	LOW
79.92	0.24	2.57*	0.09	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
66.90	0.48	-10.45*	0.17	168	MINORITY LOW
73.59	0.14	-3.76*	0.12	816	NON-MINORITY LOW
71.51	0.33	-5.84*	0.24	169	MINORITY NON-LOW
80.60	0.51	3.25*	0.12	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #23

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
46.59	1.60			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
46.76	0.53	0.17	0.27	1,450		MALE
46.50	0.28	-0.09	0.10	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
38.54	0.86	-8.05*	0.29	557		1
52.04	0.63	5.45*	0.32	919		2
49.26	0.64	2.67*	0.39	708		3
43.02	0.39	-3.57*	0.18	731		4
----RACE					----	
27.66	0.64	-18.93*	0.20	337		MINORITY
49.09	0.35	2.50*	0.05	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
38.98	0.25	-7.61*	0.18	993		LOW
50.54	0.54	3.95*	0.12	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
25.22	0.64	-21.37*	0.42	168		MINORITY LOW
41.90	0.31	-4.69*	0.26	816		NON-MINORITY LOW
30.26	0.71	-16.33*	0.42	169		MINORITY NON-LOW
52.43	0.39	5.84*	0.14	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE :24

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
63.49	1.04			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
64.00	0.50	0.51	0.28	1,450	MALE
63.04	0.44	-0.45*	0.19	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
55.33	0.73	-8.16*	1.00	557	1
68.16	0.50	4.67*	0.29	919	2
63.38	0.57	-0.11	0.26	708	3
63.80	0.65	0.31	0.21	731	4
----RACE					----
41.78	0.81	-21.71*	0.68	337	MINORITY
66.49	0.43	3.00*	0.10	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
56.25	0.33	-7.24*	0.26	993	LOW
67.26	0.43	3.77*	0.15	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
38.52	1.00	-24.97*	0.73	168	MINORITY LOW
60.16	0.41	-3.33*	0.27	816	NON-MINORITY LOW
45.25	0.66	-18.24*	0.49	169	MINORITY NON-LOW
69.43	0.42	5.94*	0.19	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE :25

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
80.81	1.64			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
80.10	0.54	-0.71*	0.36	1,450		MALE
81.52	0.55	0.71*	0.19	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
72.82	0.48	-7.99*	0.82	557		1
84.04	0.53	3.23*	0.30	919		2
81.89	0.61	1.08*	0.33	708		3
82.03	0.72	1.22*	0.34	731		4
----RACE					----	
58.10	1.01	-22.71*	1.02	337		MINORITY
83.89	0.36	3.08*	0.14	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
74.14	0.35	-6.67*	0.44	993		LOW
84.27	0.43	3.46*	0.21	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
51.91	0.84	-28.90*	1.33	168		MINORITY LOW
79.04	0.55	-1.77*	0.42	816		NON-MINORITY LOW
64.70	1.02	-16.11*	0.71	169		MINORITY NON-LOW
86.14	0.46	5.33*	0.26	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE 126

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
76,03	0,85			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
77,87	0,56	1,84*	0,36	1,450	MALE
74,23	0,54	-1,80*	0,36	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
69,21	1,67	-6,82*	1,35	557	1
80,65	0,84	4,62*	0,44	919	2
77,58	0,67	1,55*	0,62	708	3
73,64	0,89	-2,39*	0,58	731	4
----RACE					----
57,39	1,45	-18,64*	0,84	337	MINORITY
78,61	0,53	2,58*	0,08	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
66,36	0,70	-9,67*	0,65	993	LOW
81,05	0,45	5,02*	0,30	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
48,34	1,42	-27,69*	1,01	168	MINORITY LOW
70,44	0,74	-5,59*	0,33	816	NON-MINORITY LOW
67,03	1,01	-9,00*	1,07	169	MINORITY NON-LOW
82,41	0,43	6,38*	0,25	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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OBJECTIVE #27

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
72.61	1.36			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
73.78	0.49	1.17*	0.31	1,450		MALE
71.53	0.53	-1.08*	0.26	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
66.09	0.97	-6.52*	0.73	557		1
75.02	0.79	2.41*	0.53	919		2
74.68	1.01	2.07*	0.55	708		3
72.85	0.75	0.24	0.25	731		4
----RACE					----	
58.47	0.68	-14.14*	1.03	337		MINORITY
74.65	0.54	2.04*	0.19	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
66.10	0.53	-6.51*	0.41	993		LOW
75.99	0.42	3.38*	0.21	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
52.47	1.30	-20.14*	1.08	168		MINORITY LOW
69.31	0.63	-3.30*	0.58	816		NON-MINORITY LOW
64.85	0.96	-7.76*	0.79	169		MINORITY NON-LOW
77.13	0.60	4.52*	0.39	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE :28

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
71.45	1.16			2,915	ALL STUDENTS
----SEX OF THE STUDENT ----					
78.24	0.26	6.79*	0.06	1,450	MALE
64.92	0.09	-6.53*	0.05	1,457	FEMALE
----SIZE OF THE COMMUNITY ----					
59.92	0.38	-11.53*	0.24	557	1
74.93	0.30	3.48*	0.10	919	2
72.80	0.28	1.35*	0.10	708	3
75.18	0.23	3.73*	0.06	731	4
----RACE ----					
47.19	0.44	-24.26*	0.10	337	MINORITY
74.82	0.36	3.37*	0.02	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
64.27	0.13	-7.18*	0.10	993	LOW
75.18	0.14	3.73*	0.05	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
42.87	0.33	-28.58*	0.13	168	MINORITY LOW
69.23	0.13	-2.22*	0.07	816	NON-MINORITY LOW
51.80	0.41	-19.65*	0.15	169	MINORITY NON-LOW
77.42	0.10	5.97*	0.05	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #29

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
60,04	1,75			2,915	ALL STUDENTS
----SEX OF THE STUDENT ----					
62,74	0,43	2,70*	0,19	1,450	MALE
57,41	0,46	-2,63*	0,17	1,457	FEMALE
----SIZE OF THE COMMUNITY ----					
52,25	0,69	-7,79*	0,48	557	1
63,65	0,60	3,61*	0,28	919	2
60,35	0,68	0,31	0,25	708	3
61,20	0,47	1,16*	0,22	731	4
----RACE ----					
36,84	0,76	-23,20*	0,54	337	MINORITY
63,23	0,41	3,19*	0,08	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
52,65	0,26	-7,39*	0,31	993	LOW
63,88	0,52	3,84*	0,17	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
29,33	0,79	-30,71*	0,45	168	MINORITY LOW
57,97	0,31	-2,07*	0,16	816	NON-MINORITY LOW
44,83	0,98	-15,21*	0,34	169	MINORITY NON-LOW
65,67	0,31	5,63*	0,16	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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OBJECTIVE #30

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
59.28	1.51			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
59.26	0.40	-0.02	0.32	1,450		MALE
59.33	0.50	0.05	0.21	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
60.09	0.95	0.81	0.49	557		1
59.58	0.76	0.30	0.42	919		2
59.72	0.61	0.44	0.40	708		3
57.68	0.35	-1.60*	0.49	731		4
----RACE					----	
57.50	0.73	-1.78*	0.72	337		MINORITY
59.41	0.62	0.13	0.13	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
58.78	0.36	-0.50	0.39	993		LOW
59.53	0.50	0.25	0.23	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
55.95	0.89	-3.33*	0.52	168		MINORITY LOW
59.54	0.37	0.26	0.42	816		NON-MINORITY LOW
59.16	1.11	-0.12	0.61	169		MINORITY NON-LOW
59.35	0.69	0.07	0.27	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE #31

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
41,55	1,37			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
47,94	0,65	6,39*	0,33	1,450		MALE
35,56	0,45	-5,99*	0,25	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
31,77	1,16	-9,78*	0,80	557		1
47,10	0,65	5,55*	0,63	919		2
41,80	0,96	0,25*	0,11	708		3
41,62	0,70	0,07	0,52	731		4
----RACE					----	
20,99	0,99	-20,56*	0,83	337		MINORITY
44,51	0,51	2,96*	0,18	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
33,68	0,69	-7,87*	0,44	993		LOW
45,65	0,57	4,10*	0,21	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
16,84	0,66	-24,71*	0,91	168		MINORITY LOW
37,72	0,51	-3,83*	0,28	816		NON-MINORITY LOW
25,42	0,86	-16,13*	1,30	169		MINORITY NON-LOW
47,66	0,63	6,11*	0,44	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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OBJECTIVE #32

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
56.72	1.32			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
55.49	0.75	-1.23*	0.55	1,450		MALE
57.71	0.52	0.99*	0.38	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
48.91	1.00	-7.81*	0.67	557		1
59.85	0.66	3.13*	0.90	919		2
58.09	0.72	1.37*	0.56	708		3
57.64	0.51	0.92	0.55	731		4
----RACE					----	
45.18	1.15	-11.54*	0.81	337		MINORITY
58.16	0.49	1.44*	0.22	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
52.24	0.61	-4.48*	0.36	993		LOW
59.04	0.48	2.32*	0.46	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
40.50	1.74	-16.22*	0.91	168		MINORITY LOW
54.58	0.68	-2.14*	0.31	816		NON-MINORITY LOW
50.16	1.73	-6.56*	0.99	169		MINORITY NON-LOW
59.83	0.58	3.11*	0.48	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE 133

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
65,76	1,65			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
65,00	0,72	-0,76	0,45	1,450		MALE
66,71	0,69	0,95*	0,43	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
57,69	1,42	-8,07*	1,14	557		1
70,19	1,20	4,43*	0,49	919		2
66,83	0,78	1,07	0,82	708		3
65,24	0,76	-0,52	0,40	731		4
----RACE					----	
49,07	0,98	-16,69*	1,55	337		MINORITY
68,16	0,59	2,40*	0,12	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
58,98	0,58	-6,78*	0,32	993		LOW
69,28	0,74	3,52*	0,32	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
47,57	1,28	-18,19*	0,89	168		MINORITY LOW
61,75	0,70	-4,01*	0,37	816		NON-MINORITY LOW
50,67	1,35	-15,09*	1,63	169		MINORITY NON-LOW
71,14	0,86	5,38*	0,27	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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OBJECTIVE #34

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
80.22	0.91			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
77.28	0.19	-2.94*	0.04	1,450		MALE
83.21	0.27	2.99*	0.04	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
75.03	0.11	-5.19*	0.12	557		1
83.02	0.12	2.80*	0.05	919		2
80.74	0.11	0.52*	0.09	708		3
80.11	0.29	-0.11*	0.04	731		4
----RACE					----	
64.44	0.33	-15.78*	0.10	337		MINORITY
82.35	0.16	2.13*	0.01	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
71.86	0.07	-8.36*	0.08	993		LOW
84.56	0.29	4.34*	0.02	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
60.52	0.11	-19.70*	0.17	168		MINORITY LOW
74.33	0.07	-5.89*	0.05	816		NON-MINORITY LOW
68.62	0.29	-11.60*	0.23	169		MINORITY NON-LOW
86.08	0.20	5.86*	0.02	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE :35

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
67.81	1.19			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
67.82	0.45	0.01	0.16	1,450		MALE
68.01	0.34	0.20	0.24	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
62.62	0.99	-5.19*	0.47	557		1
71.62	0.48	3.81*	0.35	919		2
69.86	0.43	2.05*	0.36	708		3
64.78	0.48	-3.03*	0.13	731		4
----RACE					----	
50.39	0.50	-17.42*	0.37	337		MINORITY
70.44	0.32	2.63*	0.06	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
58.47	0.29	-9.34*	0.28	993		LOW
72.67	0.32	4.86*	0.13	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
45.53	0.73	-22.28*	0.40	168		MINORITY LOW
61.67	0.32	-6.14*	0.19	816		NON-MINORITY LOW
55.56	0.33	-12.25*	0.64	169		MINORITY NON-LOW
74.52	0.31	6.71*	0.15	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OBJECTIVE :36

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
52.20	1.56			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
55.68	0.59	3.48*	0.23	1,450		MALE
48.93	0.67	-3.27*	0.24	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
44.13	1.29	-8.07*	0.66	557		1
55.78	0.60	3.58*	0.29	919		2
54.18	0.45	1.98*	0.37	708		3
52.14	0.53	-0.06	0.49	731		4
----RACE					----	
35.10	0.86	-17.10*	0.48	337		MINORITY
54.66	0.53	2.46*	0.08	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
46.58	0.37	-5.62*	0.32	993		LOW
55.13	0.60	2.93*	0.18	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
30.39	0.59	-21.81*	0.44	168		MINORITY LOW
50.33	0.49	-1.87*	0.45	816		NON-MINORITY LOW
40.11	1.00	-12.09*	0.87	169		MINORITY NON-LOW
56.68	0.56	4.48*	0.21	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

OBJECTIVE #37

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
68.10	1.64			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
65.60	0.61	-2.50*	0.23	1,450		MALE
70.55	0.55	2.45*	0.18	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
60.95	0.93	-7.15*	0.56	557		1
72.48	0.70	4.38*	0.40	919		2
67.84	0.69	-0.26	0.44	708		3
68.08	0.71	-0.02	0.16	731		4
----RACE					----	
50.28	0.87	-17.82*	0.77	337		MINORITY
70.43	0.49	2.33*	0.11	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
61.91	0.68	-6.19*	0.29	993		LOW
71.32	0.43	3.22*	0.16	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
46.41	0.95	-21.69*	0.39	168		MINORITY LOW
65.17	0.75	-2.93*	0.37	816		NON-MINORITY LOW
54.41	0.74	-13.69*	0.85	169		MINORITY NON-LOW
72.88	0.62	4.78*	0.19	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

OBJECTIVE : 1

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
50.30	0.98			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
47.82	0.41	-2.48*	0.39	1,389		MALE
53.36	0.37	3.06*	0.35	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
46.38	0.53	-3.92*	0.65	572		1
52.41	0.63	2.11*	0.55	951		2
52.27	0.58	1.97*	0.94	699		3
48.93	0.70	-1.37*	0.68	751		4
----RACE					----	
39.52	0.56	-10.78*	0.42	308		MINORITY
52.24	0.39	1.94*	0.18	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
43.32	0.39	-6.98*	0.42	1,060		LOW
54.10	0.34	3.80*	0.33	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
36.41	0.62	-13.89*	0.56	171		MINORITY LOW
46.16	0.38	-4.14*	0.32	862		NON-MINORITY LOW
43.23	0.84	-7.07*	0.51	137		MINORITY NON-LOW
55.10	0.35	4.80*	0.37	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

OBJECTIVE : 2

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
62.23	0.64			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
58.76	0.20	-3.47*	0.11	1,389		MALE
66.39	0.14	4.16*	0.10	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
59.79	0.25	-2.44*	0.27	572		1
64.61	0.27	2.38*	0.17	951		2
63.03	0.28	0.80*	0.26	699		3
60.25	0.13	-1.98*	0.26	751		4
----RACE					----	
52.94	0.19	-9.29*	0.27	308		MINORITY
64.08	0.20	1.85*	0.04	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
56.92	0.18	-5.31*	0.16	1,060		LOW
65.12	0.18	2.89*	0.08	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
50.71	0.28	-11.52*	0.26	171		MINORITY LOW
60.09	0.17	-2.14*	0.09	862		NON-MINORITY LOW
55.62	0.25	-6.61*	0.25	137		MINORITY NON-LOW
65.95	0.17	3.72*	0.09	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

OBJECTIVE : 3

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
49.79	1.07			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
46.20	0.35	-3.59*	0.22	1,389		MALE
53.83	0.46	4.04*	0.27	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
45.72	0.53	-4.07*	0.44	572		1
49.91	0.56	0.12	0.31	951		2
52.87	0.48	3.08*	0.71	699		3
50.30	0.31	0.51	0.52	751		4
----RACE					----	
42.37	0.37	-7.42*	0.40	308		MINORITY
51.29	0.37	1.50*	0.13	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
45.44	0.36	-4.35*	0.36	1,060		LOW
52.15	0.35	2.36*	0.24	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
40.90	0.62	-8.89*	0.67	171		MINORITY LOW
47.94	0.41	-1.85*	0.27	862		NON-MINORITY LOW
44.14	0.54	-5.65*	0.52	137		MINORITY NON-LOW
52.86	0.40	3.07*	0.26	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

OBJECTIVE : 4

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
62.14	0.91			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
56.42	0.41	-5.72*	0.28	1,389	MALE
68.32	0.35	6.18*	0.22	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
59.07	0.96	-3.07*	0.88	572	1
63.68	0.51	1.54*	0.50	951	2
63.43	0.49	1.29*	0.55	699	3
61.44	0.39	-0.70	0.42	751	4
----RACE					----
49.65	0.55	-12.49*	0.79	308	MINORITY
64.40	0.33	2.26*	0.12	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
55.55	0.36	-6.59*	0.38	1,060	LOW
65.72	0.35	3.58*	0.20	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
47.79	0.64	-14.35*	0.58	171	MINORITY LOW
58.99	0.34	-3.15*	0.30	862	NON-MINORITY LOW
51.88	0.55	-10.26*	0.90	137	MINORITY NON-LOW
66.94	0.34	4.80*	0.22	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

OBJECTIVE : 5

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
75.14	1.00			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
73.56	0.52	-1.58*	0.31	1,389		MALE
77.83	0.41	2.69*	0.29	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
70.66	1.02	-4.48*	0.81	572		1
77.50	0.58	2.36*	0.59	951		2
76.94	0.50	1.80*	0.50	699		3
74.07	0.51	-1.07	0.73	751		4
----RACE					----	
63.71	1.43	-11.43*	0.99	308		MINORITY
77.41	0.32	2.27*	0.11	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
70.56	0.66	-4.58*	0.51	1,060		LOW
77.64	0.34	2.50*	0.17	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
61.59	1.11	-13.55*	1.08	171		MINORITY LOW
74.74	0.45	-0.40	0.34	862		NON-MINORITY LOW
66.25	0.72	-8.89*	1.11	137		MINORITY NON-LOW
78.67	0.38	3.53*	0.21	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

APPENDIX B

Performance by Reporting Groups on Items

Just as the performance on each objective of reporting groups was given in the table of Appendix A, this appendix contains tables reporting performance on each item by each reporting group. The format of these tables is the same as that used in the previous appendix.

The P-Value is an estimate, based upon the results of the sample taken, of the performance level the entire population of students at the same grade level would have achieved if they had taken the same test. In order to obtain the P-Value, the scores for different reporting groups are weighted differently, depending upon their size within the population.

In Column 2, the standard error of the P-Value is given. This is a measure of the extent to which the estimated P-Value differs or varies from the actual population performance level. The larger this value, the less reliable is the P-Value which has been reported. As the standard error becomes smaller, the P-Value can be taken as a more reliable measure of the population's true performance level.

The group effect, Column 3, is the difference between a particular reporting group's performance and the average score for all students. For example, if the overall average score on a test was 75.0 and if one reporting group had an average score of 70, the group effect for this reporting group is -5.0 percentage points. When an asterisk appears beside this value, it is an indication that the group effect was statistically significant at the $p \leq .05$ level.

Column 4 gives the standard error of the group effect. As with the standard error of the P-Value, this is an indication of the extent to which individual scores deviated from the overall score for the reporting group. A large standard error indicates a large degree of variability in the scores of the members of the reporting group and, hence, the reporting group score is not as reliable as when the standard error is small.

Column 5 gives the total number of students within the entire sample and within each reporting group.

Appendix B contains reports of performance on items by reporting groups for each of the four tests.

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM # 1

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
94.68	1.46			3,253	ALL STUDENTS
----SEX OF THE STUDENT				----	
93.37	0.14	-1.31*	0.14	1,628	MALE
96.42	0.20	1.74*	0.10	1,564	FEMALE
----SIZE OF THE COMMUNITY				----	
92.73	0.36	-1.95*	0.24	692	1
96.58	0.23	1.90*	0.14	975	2
94.15	0.29	-0.53*	0.17	800	3
94.52	0.26	-0.16	0.30	786	4
----RACE				----	
91.17	0.29	-3.51*	0.30	465	MINORITY
95.45	0.20	0.77*	0.08	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
93.20	0.13	-1.48*	0.22	1,128	LOW
95.45	0.22	0.77*	0.10	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
91.04	0.17	-3.64*	0.17	223	MINORITY LOW
93.97	0.20	-0.71*	0.18	843	NON-MINORITY LOW
91.29	0.12	-3.39*	0.13	242	MINORITY NON-LOW
96.12	0.23	1.44*	0.12	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM : 2

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
92.16	0.66			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
90.54	0.27	-1.62*	0.16	1,628	MALE
94.24	0.17	2.08*	0.15	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
89.61	0.33	-2.55*	0.35	692	1
92.78	0.29	0.62*	0.21	975	2
91.85	0.28	-0.31	0.31	800	3
93.73	0.15	1.57*	0.45	786	4
----RACE					----
88.70	0.48	-3.46*	0.27	465	MINORITY
92.84	0.10	0.68*	0.11	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
89.14	0.22	-3.02*	0.30	1,128	LOW
93.75	0.16	1.59*	0.09	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
88.90	0.22	-3.26*	0.22	223	MINORITY LOW
89.49	0.16	-2.67*	0.42	843	NON-MINORITY LOW
88.51	0.19	-3.65*	0.20	242	MINORITY NON-LOW
94.35	0.20	2.19*	0.11	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM : 3

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
91.65	0.96			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
89.33	0.28	-2.32*	0.22	1,628		MALE
94.52	0.25	2.87*	0.21	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
88.95	0.48	-2.70*	0.38	692		1
93.21	0.36	1.56*	0.30	975		2
91.42	0.28	-0.23	0.44	800		3
92.20	0.43	0.55	0.55	786		4
----RACE					----	
87.93	0.54	-3.72*	0.34	465		MINORITY
92.44	0.20	0.79*	0.13	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
90.87	0.13	-0.78*	0.30	1,128		LOW
92.07	0.21	0.42*	0.17	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
86.67	0.26	-4.98*	0.25	223		MINORITY LOW
92.10	0.27	0.45	0.28	843		NON-MINORITY LOW
89.10	0.18	-2.55*	0.21	242		MINORITY NON-LOW
92.60	0.19	0.95*	0.19	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM : 4

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
75.66	0.87			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
72.69	0.20	-2.97*	0.06	1,628		MALE
79.80	0.17	4.14*	0.08	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
71.63	0.18	-4.03*	0.09	692		1
78.53	0.29	2.87*	0.08	975		2
74.64	0.19	-1.02*	0.14	800		3
76.52	0.18	0.86*	0.14	786		4
----RACE					----	
63.87	0.25	-11.79*	0.10	465		MINORITY
77.97	0.12	2.31*	0.04	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
69.12	0.14	-6.54*	0.11	1,128		LOW
79.10	0.16	3.44*	0.05	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
63.08	0.06	-12.58*	0.29	223		MINORITY LOW
71.41	0.13	-4.25*	0.09	843		NON-MINORITY LOW
64.61	0.14	-11.05*	0.12	242		MINORITY NON-LOW
80.94	0.13	5.28*	0.06	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM : 5

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
73.79	0.65			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
69.17	0.17	-4.62*	0.14	1,628		MALE
79.29	0.19	5.50*	0.19	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
71.25	0.36	-2.54*	0.18	692		1
77.90	0.22	4.11*	0.24	975		2
69.95	0.45	-3.84*	0.25	800		3
74.89	0.30	1.10*	0.22	786		4
----RACE					----	
62.87	0.43	-10.92*	0.19	465		MINORITY
75.86	0.20	2.07*	0.08	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
68.72	0.16	-5.07*	0.14	1,128		LOW
76.46	0.17	2.67*	0.11	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
61.95	0.09	-11.84*	0.54	223		MINORITY LOW
70.89	0.17	-2.90*	0.18	843		NON-MINORITY LOW
63.72	0.12	-10.07*	0.26	242		MINORITY NON-LOW
78.11	0.16	4.32*	0.12	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM : 6

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
66,08	1,11			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
64,94	0,30	-1,14*	0,17	1,628		MALE
68,22	0,33	2,14*	0,24	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
62,23	0,34	-3,85*	0,27	692		1
70,61	0,69	4,53*	0,32	975		2
65,50	0,41	-0,58	0,38	800		3
64,45	0,46	-1,63*	0,25	786		4
----RACE					----	
56,87	0,60	-9,21*	0,29	465		MINORITY
68,23	0,24	2,15*	0,09	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
60,15	0,28	-5,93*	0,35	1,128		LOW
69,19	0,20	3,11*	0,15	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
57,04	0,19	-9,04*	0,72	223		MINORITY LOW
62,12	0,26	-3,96*	0,24	843		NON-MINORITY LOW
56,71	0,39	-9,37*	0,34	242		MINORITY NON-LOW
70,99	0,32	4,91*	0,18	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM : 7

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
87.72	0.55			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
84.99	0.22	-2.73*	0.18	1,628	MALE
91.24	0.25	3.52*	0.24	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
84.21	0.33	-3.51*	0.22	692	1
88.50	0.31	0.78*	0.27	975	2
88.66	0.29	0.94*	0.28	800	3
88.61	0.33	0.89*	0.27	786	4
----RACE					----
82.89	0.48	-4.83*	0.37	465	MINORITY
88.89	0.18	1.17*	0.09	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
83.50	0.15	-4.22*	0.23	1,128	LOW
89.94	0.15	2.22*	0.11	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
81.71	0.24	-6.01*	0.47	223	MINORITY LOW
84.60	0.27	-3.12*	0.32	843	NON-MINORITY LOW
83.99	0.19	-3.73*	0.21	242	MINORITY NON-LOW
90.83	0.23	3.11*	0.13	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM : 8

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
92,28	1,17			3,253	ALL STUDENTS
----SEX OF THE STUDENT				----	
90,38	0,34	-1,90*	0,16	1,628	MALE
94,35	0,35	2,07*	0,27	1,564	FEMALE
----SIZE OF THE COMMUNITY				----	
89,43	0,23	-2,85*	0,32	692	1
93,15	0,56	0,87*	0,33	975	2
91,83	0,18	-0,45	0,34	800	3
93,92	0,50	1,64*	0,28	786	4
----RACE				----	
85,02	0,79	-7,26*	0,37	465	MINORITY
93,53	0,20	1,25*	0,09	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
89,14	0,52	-3,14*	0,26	1,128	LOW
93,93	0,25	1,65*	0,09	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
81,25	0,29	-11,03*	0,80	223	MINORITY LOW
91,36	0,33	-0,92*	0,27	843	NON-MINORITY LOW
88,52	0,22	-3,76*	0,20	242	MINORITY NON-LOW
94,51	0,35	2,23*	0,12	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM : 9

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
86.04	0.98			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
83.56	0.20	-2.48*	0.04	1,628	MALE
89.44	0.20	3.40*	0.06	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
81.38	0.23	-4.66*	0.10	692	1
87.88	0.27	1.84*	0.13	975	2
85.41	0.20	-0.63*	0.07	800	3
88.17	0.19	2.13*	0.11	786	4
----RACE					----
76.35	0.19	-9.69*	0.14	465	MINORITY
88.07	0.21	2.03*	0.03	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
81.86	0.17	-4.18*	0.08	1,128	LOW
88.24	0.11	2.20*	0.03	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
74.23	0.06	-11.81*	0.22	223	MINORITY LOW
84.86	0.13	-1.18*	0.06	843	NON-MINORITY LOW
78.31	0.09	-7.73*	0.20	242	MINORITY NON-LOW
89.51	0.17	3.47*	0.05	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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                     OHIO DEPARTMENT OF EDUCATION
                   DIVISION OF PLANNING AND EVALUATION

                   OHIO STATEWIDE ASSESSMENT - SPRING 1978

                               "4TH GRADE MATH"
             ITEM #10

           SE OF      GROUP      SE OF      SAMPLE
 P-VALUE  P-VALUE     EFFECT     EFFECT     SIZE           REPORTING GROUP

  75.00     1.31                            3,253          ALL STUDENTS

----SEX OF THE STUDENT                                ----
  72.38     0.24      -2.62*     0.13       1,628          MALE
  78.52     0.33       3.52*     0.18       1,564          FEMALE

----SIZE OF THE COMMUNITY                             ----
  71.66     0.49      -3.34*     0.16         692          1
  78.16     0.38       3.16*     0.25         975          2
  74.03     0.28      -0.97*     0.25         800          3
  74.93     0.28      -0.07      0.21         786          4

----RACE                                              ----
  65.95     0.43      -9.05*     0.17         465          MINORITY
  76.80     0.10       1.80*     0.06       2,697          NON-MINORITY

----SOCIO-ECONOMIC STATUS                             ----
  66.35     0.25      -8.65*     0.13       1,128          LOW
  79.54     0.24       4.54*     0.11       2,125          NON-LOW

----RACE BY SOCIO-ECONOMIC STATUS                     ----
  65.90     0.08      -9.10*     0.56         223          MINORITY LOW
  67.01     0.19      -7.99*     0.15         843          NON-MINORITY LOW
  66.00     0.14      -9.00*     0.24         242          MINORITY NON-LOW
  81.22     0.27       6.22*     0.12       1,854          NON-MINORITY NON-LOW

 *  INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL
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OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM :11

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
71.99	0.22			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
70.70	0.23	-1.29*	0.19	1,628		MALE
74.53	0.17	2.54*	0.17	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
65.54	0.31	-6.45*	0.33	692		1
75.53	0.40	3.54*	0.23	975		2
70.42	0.39	-1.57*	0.32	800		3
74.50	0.27	2.51*	0.23	786		4
----RACE					----	
58.54	0.43	-13.45*	0.08	465		MINORITY
74.73	0.17	2.74*	0.07	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
63.29	0.19	-8.70*	0.34	1,128		LOW
76.56	0.19	4.57*	0.11	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
58.90	0.11	-13.09*	0.63	223		MINORITY LOW
65.71	0.21	-6.28*	0.30	843		NON-MINORITY LOW
58.19	0.19	-13.80*	0.30	242		MINORITY NON-LOW
78.80	0.23	6.81*	0.12	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #12

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
70.46	1.24			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
68.63	0.32	-1.83*	0.21	1,628		MALE
73.26	0.25	2.80*	0.20	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
63.21	0.54	-7.25*	0.62	692		1
75.38	0.75	4.92*	0.48	975		2
70.65	0.47	0.19	0.18	800		3
70.26	0.28	-0.20	0.46	786		4
----RACE					----	
56.35	0.72	-14.11*	0.48	465		MINORITY
73.18	0.18	2.72*	0.12	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
62.88	0.35	-7.58*	0.28	1,128		LOW
74.45	0.32	3.99*	0.15	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
55.27	0.50	-15.19*	1.02	223		MINORITY LOW
65.62	0.34	-4.84*	0.32	843		NON-MINORITY LOW
57.36	0.39	-13.10*	0.54	242		MINORITY NON-LOW
76.60	0.19	6.14*	0.18	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #13

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
91.47	0.87			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
90.08	0.17	-1.39*	0.18	1,628		MALE
93.24	0.23	1.77*	0.22	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
89.27	0.31	-2.20*	0.26	692		1
91.60	0.29	0.13	0.23	975		2
93.06	0.23	1.59*	0.30	800		3
91.45	0.16	-0.02	0.27	786		4
----RACE					----	
88.68	0.48	-2.79*	0.38	465		MINORITY
92.18	0.12	0.71*	0.09	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
90.59	0.22	-0.88*	0.19	1,128		LOW
91.94	0.17	0.47*	0.10	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
86.01	0.32	-5.46*	0.26	223		MINORITY LOW
91.83	0.14	0.36	0.23	843		NON-MINORITY LOW
91.15	0.16	-0.32*	0.16	242		MINORITY NON-LOW
92.34	0.16	0.87*	0.12	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #14

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
64.52	1.05			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
63.99	0.19	-0.53*	0.02	1,628		MALE
65.49	0.17	0.97*	0.06	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
57.89	0.14	-6.63*	0.06	692		1
67.25	0.13	2.73*	0.06	975		2
64.90	0.14	0.38*	0.06	800		3
66.14	0.19	1.62*	0.03	786		4
----RACE					----	
55.71	0.07	-8.81*	0.14	465		MINORITY
66.21	0.19	1.69*	0.01	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
59.88	0.23	-4.64*	0.04	1,128		LOW
66.96	0.22	2.44*	0.02	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
55.93	0.15	-8.59*	0.09	223		MINORITY LOW
61.35	0.21	-3.17*	0.04	843		NON-MINORITY LOW
55.50	0.07	-9.02*	0.09	242		MINORITY NON-LOW
68.41	0.16	3.89*	0.02	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #15

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
92.26	0.52			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.31	0.15	-0.95*	0.10	1,628		MALE
93.59	0.11	1.33*	0.08	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
88.55	0.27	-3.71*	0.13	692		1
93.76	0.19	1.50*	0.12	975		2
93.81	0.14	1.55*	0.13	800		3
91.85	0.08	-0.41*	0.13	786		4
----RACE					----	
84.57	0.14	-7.69*	0.18	465		MINORITY
93.58	0.12	1.32*	0.04	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
89.17	0.16	-3.09*	0.10	1,128		LOW
93.88	0.12	1.62*	0.06	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
81.55	0.13	-10.71*	0.29	223		MINORITY LOW
90.98	0.19	-1.28*	0.14	843		NON-MINORITY LOW
87.37	0.11	-4.89*	0.10	242		MINORITY NON-LOW
94.76	0.13	2.50*	0.07	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM 116

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
86,79	0,85			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
86,35	0,28	-0,44*	0,11	1,628		MALE
87,04	0,22	0,25	0,19	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
81,81	0,19	-4,98*	0,27	692		1
88,63	0,23	1,84*	0,15	975		2
87,87	0,20	1,08*	0,11	800		3
87,46	0,45	0,67*	0,18	786		4
----RACE					----	
76,91	0,43	-9,88*	0,34	465		MINORITY
88,36	0,22	1,57*	0,05	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
82,48	0,22	-4,31*	0,16	1,128		LOW
89,06	0,25	2,27*	0,08	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
75,18	0,18	-11,61*	0,52	223		MINORITY LOW
83,96	0,24	-2,83*	0,14	843		NON-MINORITY LOW
78,51	0,29	-8,28*	0,37	242		MINORITY NON-LOW
90,35	0,20	3,56*	0,11	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #17

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
49.42	1.15			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
49.76	0.24	0.34	0.19	1,628	MALE
49.20	0.29	-0.22	0.24	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
43.51	0.29	-5.91*	0.67	692	1
60.82	0.51	11.40*	0.26	975	2
46.60	0.32	-2.82*	0.39	800	3
43.81	0.40	-5.61*	0.29	786	4
----RACE					----
35.06	0.28	-14.36*	0.29	465	MINORITY
51.99	0.28	2.57*	0.09	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
40.77	0.22	-8.65*	0.28	1,128	LOW
53.97	0.22	4.55*	0.13	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
29.95	0.24	-19.47*	0.58	223	MINORITY LOW
43.53	0.24	-5.89*	0.29	843	NON-MINORITY LOW
39.79	0.29	-9.63*	0.32	242	MINORITY NON-LOW
55.81	0.26	6.39*	0.16	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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"4TH GRADE MATH"

ITEM 118

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
49.24	0.67			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
48.02	0.39	-1.22*	0.23	1,628	MALE
51.09	0.29	1.85*	0.27	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
41.89	0.58	-7.35*	0.79	692	1
49.54	0.70	0.30	0.47	975	2
52.77	0.93	3.53*	0.46	800	3
51.02	0.45	1.78*	0.58	786	4
----RACE					----
41.53	0.76	-7.71*	0.34	465	MINORITY
50.62	0.30	1.38*	0.14	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
42.64	0.38	-6.60*	0.30	1,128	LOW
52.70	0.30	3.46*	0.30	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
38.25	0.44	-10.99*	0.68	223	MINORITY LOW
44.01	0.41	-5.23*	0.31	843	NON-MINORITY LOW
44.57	0.80	-4.67*	0.97	242	MINORITY NON-LOW
53.61	0.35	4.37*	0.30	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM :19

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
46.23	1.37			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
44.72	0.04	-1.51*	0.01	1,628		MALE
48.56	0.08	2.33*	0.01	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
38.56	0.10	-7.67*	0.04	692		1
44.62	0.10	-1.61*	0.02	975		2
50.65	0.10	4.42*	0.01	800		3
49.55	0.12	3.32*	0.02	786		4
----RACE					----	
38.11	0.04	-8.12*	0.02	465		MINORITY
47.67	0.24	1.44*	0.00	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
41.19	0.24	-5.04*	0.01	1,128		LOW
48.87	0.23	2.64*	0.01	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
37.09	0.02	-9.14*	0.04	223		MINORITY LOW
42.66	0.14	-3.57*	0.01	843		NON-MINORITY LOW
39.06	0.04	-7.17*	0.05	242		MINORITY NON-LOW
49.94	0.25	3.71*	0.01	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM :20

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
57.39	0.98			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
53.48	0.23	-3.91*	0.14	1,628		MALE
62.07	0.16	4.68*	0.15	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
51.28	0.23	-6.11*	0.34	692		1
55.78	0.32	-1.61*	0.17	975		2
59.05	0.31	1.66*	0.24	800		3
62.28	0.46	4.89*	0.29	786		4
----RACE					----	
49.54	0.33	-7.85*	0.16	465		MINORITY
58.91	0.25	1.52*	0.09	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
52.17	0.18	-5.22*	0.20	1,128		LOW
60.14	0.20	2.75*	0.15	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
48.31	0.20	-9.08*	0.38	223		MINORITY LOW
53.45	0.26	-3.94*	0.20	843		NON-MINORITY LOW
50.68	0.15	-6.71*	0.40	242		MINORITY NON-LOW
61.37	0.18	3.98*	0.16	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #21

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
56.78	1.36			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
53.64	0.26	-3.14*	0.21	1,628		MALE
60.66	0.35	3.88*	0.23	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
51.43	0.20	-5.35*	0.25	692		1
54.10	0.32	-2.68*	0.27	975		2
60.19	0.44	3.41*	0.35	800		3
60.55	0.61	3.77*	0.37	786		4
----RACE					----	
52.26	0.42	-4.52*	0.48	465		MINORITY
57.73	0.27	0.95*	0.13	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
53.10	0.35	-3.68*	0.23	1,128		LOW
58.71	0.31	1.93*	0.20	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
51.00	0.09	-5.78*	0.36	223		MINORITY LOW
54.12	0.40	-2.66*	0.23	843		NON-MINORITY LOW
53.43	0.19	-3.35*	0.48	242		MINORITY NON-LOW
59.35	0.25	2.57*	0.21	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #22

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
83.51	0.98			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
83.97	0.21	0.46*	0.16	1,628		MALE
83.81	0.28	0.30	0.24	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
79.86	0.47	-3.65*	0.29	692		1
85.77	0.51	2.26*	0.26	975		2
84.49	0.39	0.98*	0.35	800		3
82.76	0.39	-0.75	0.39	786		4
----RACE					----	
69.64	0.60	-13.87*	0.27	465		MINORITY
86.24	0.25	2.73*	0.08	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
77.73	0.34	-5.78*	0.25	1,128		LOW
86.54	0.28	3.03*	0.11	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
67.04	0.24	-16.47*	0.75	223		MINORITY LOW
81.47	0.25	-2.04*	0.22	843		NON-MINORITY LOW
72.05	0.31	-11.46*	0.79	242		MINORITY NON-LOW
88.39	0.19	4.88*	0.13	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #23

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
80,74	0,58			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
78,33	0,31	-2,41*	0,23	1,628		MALE
83,35	0,39	2,61*	0,39	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
73,93	0,40	-6,81*	0,39	692		1
83,52	0,61	2,78*	0,35	975		2
82,84	0,64	2,10*	0,26	800		3
80,75	0,52	0,01	0,37	786		4
----RACE					----	
68,15	0,31	-12,59*	0,19	465		MINORITY
82,78	0,31	2,04*	0,08	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
75,39	0,32	-5,35*	0,15	1,128		LOW
83,56	0,25	2,82*	0,15	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
65,97	0,14	-14,77*	1,03	223		MINORITY LOW
77,15	0,33	-3,59*	0,20	843		NON-MINORITY LOW
70,16	0,20	-10,58*	0,89	242		MINORITY NON-LOW
85,33	0,28	4,59*	0,15	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #24

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
78.54	1.05			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
76.48	0.33	-2.06*	0.25	1,628		MALE
81.04	0.48	2.50*	0.45	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
72.15	0.79	-6.39*	0.06	692		1
83.12	0.60	4.58*	0.22	975		2
76.98	0.34	-1.56*	0.35	800		3
79.81	0.75	1.27	0.66	786		4
----RACE					----	
66.40	0.90	-12.14*	0.34	465		MINORITY
80.82	0.29	2.28*	0.14	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
73.11	0.37	-5.43*	0.39	1,128		LOW
81.40	0.35	2.86*	0.15	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
64.27	0.24	-14.27*	1.03	223		MINORITY LOW
75.44	0.36	-3.10*	0.42	843		NON-MINORITY LOW
68.38	0.28	-10.16*	0.57	242		MINORITY NON-LOW
83.25	0.24	4.71*	0.19	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #25

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
92,27	0,72			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
91,38	0,14	-0,89*	0,07	1,628		MALE
93,48	0,13	1,21*	0,11	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
88,79	0,23	-3,48*	0,14	692		1
94,55	0,18	2,28*	0,14	975		2
91,54	0,17	-0,73*	0,11	800		3
93,10	0,20	0,83*	0,16	786		4
----RACE					----	
84,93	0,17	-7,34*	0,21	465		MINORITY
93,56	0,15	1,29*	0,04	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
90,46	0,20	-1,81*	0,09	1,128		LOW
93,23	0,11	0,96*	0,06	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
84,25	0,16	-8,02*	0,12	223		MINORITY LOW
92,10	0,13	-0,17	0,09	843		NON-MINORITY LOW
85,55	0,09	-6,72*	0,11	242		MINORITY NON-LOW
94,22	0,08	1,95*	0,07	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM :26

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
40.49	0.60			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
43.75	0.15	3.26*	0.14	1,628	MALE
36.79	0.22	-3.70*	0.19	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
34.88	0.27	-5.61*	0.29	692	1
45.46	0.45	4.97*	0.29	975	2
38.74	0.37	-1.75*	0.44	800	3
40.90	0.37	0.41	0.38	786	4
----RACE					----
28.08	0.34	-12.41*	0.26	465	MINORITY
42.47	0.19	1.98*	0.08	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
33.44	0.31	-7.05*	0.19	1,128	LOW
44.20	0.16	3.71*	0.13	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
23.69	0.15	-16.80*	0.51	223	MINORITY LOW
35.09	0.20	-5.40*	0.21	843	NON-MINORITY LOW
32.14	0.20	-8.35*	0.41	242	MINORITY NON-LOW
45.80	0.16	5.31*	0.15	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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"4TH GRADE MATH"

ITEM :27

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
87,38	1,41			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
86,16	0,18	-1,22*	0,14	1,628		MALE
89,13	0,26	1,75*	0,23	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
80,49	0,51	-6,89*	0,30	692		1
90,50	0,32	3,12*	0,24	975		2
88,45	0,29	1,07*	0,27	800		3
88,06	0,30	0,68*	0,34	786		4
----RACE					----	
75,34	0,49	-12,04*	0,34	465		MINORITY
89,63	0,19	2,25*	0,08	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
79,70	0,31	-7,68*	0,22	1,128		LOW
91,41	0,25	4,03*	0,10	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
71,22	0,10	-16,16*	0,65	223		MINORITY LOW
82,37	0,23	-5,01*	0,23	843		NON-MINORITY LOW
79,16	0,19	-8,22*	0,19	242		MINORITY NON-LOW
92,91	0,09	5,53*	0,13	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #28

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
72,60	1,15			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
72,49	0,24	-0,11	0,26	1,628	MALE
73,42	0,31	0,82*	0,26	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
60,37	0,67	-12,23*	0,27	692	1
76,77	0,65	4,17*	0,33	975	2
71,87	0,54	-0,73*	0,30	800	3
77,99	0,55	5,39*	0,57	786	4
----RACE					----
53,54	0,56	-19,06*	0,66	465	MINORITY
75,95	0,30	3,35*	0,15	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
65,64	0,24	-6,96*	0,28	1,128	LOW
76,25	0,35	3,65*	0,18	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
49,22	0,49	-23,38*	0,49	223	MINORITY LOW
70,25	0,29	-2,35*	0,34	843	NON-MINORITY LOW
57,53	0,48	-15,07*	0,40	242	MINORITY NON-LOW
78,52	0,35	5,92*	0,22	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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"4TH GRADE MATH"

ITEM #29

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
66.84	0.78			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
65.22	0.31	-1.62*	0.25	1,628		MALE
69.10	0.26	2.26*	0.26	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
57.69	0.56	-9.15*	0.30	692		1
74.58	0.64	7.74*	0.32	975		2
64.45	0.64	-2.39*	0.35	800		3
67.47	0.68	0.63	0.41	786		4
----RACE					----	
51.65	0.53	-15.19*	0.35	465		MINORITY
69.41	0.17	2.57*	0.16	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
57.89	0.22	-8.95*	0.34	1,128		LOW
71.55	0.22	4.71*	0.21	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
47.75	0.60	-19.09*	1.13	223		MINORITY LOW
60.46	0.22	-6.38*	0.38	843		NON-MINORITY LOW
55.25	0.82	-11.59*	0.70	242		MINORITY NON-LOW
73.45	0.20	6.61*	0.25	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"4TH GRADE MATH"

ITEM 130

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
65.84	1.08			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
68.53	0.07	2.69*	0.10	1,628	MALE
63.25	0.22	-2.59*	0.10	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
58.75	0.24	-7.09*	0.16	692	1
70.07	0.24	4.23*	0.11	975	2
65.32	0.24	-0.52*	0.21	800	3
66.99	0.22	1.15*	0.19	786	4
----RACE					----
47.83	0.15	-18.01*	0.19	465	MINORITY
69.02	0.15	3.18*	0.05	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
59.90	0.22	-5.94*	0.12	1,128	LOW
68.96	0.13	3.12*	0.07	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
41.68	0.05	-24.16*	0.43	223	MINORITY LOW
64.24	0.19	-1.60*	0.14	843	NON-MINORITY LOW
53.51	0.08	-12.33*	0.27	242	MINORITY NON-LOW
71.18	0.22	5.34*	0.08	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #31

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
91.45	1.07			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.44	0.10	-0.01	0.11	1,628		MALE
91.70	0.24	0.25	0.13	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
88.90	0.26	-2.55*	0.17	692		1
93.25	0.28	1.80*	0.16	975		2
91.69	0.28	0.24	0.14	800		3
91.14	0.19	-0.31	0.21	786		4
----RACE					----	
83.87	0.32	-7.58*	0.23	465		MINORITY
92.62	0.21	1.17*	0.05	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
88.21	0.17	-3.24*	0.19	1,128		LOW
93.16	0.22	1.71*	0.06	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
81.07	0.19	-10.38*	0.21	223		MINORITY LOW
89.69	0.24	-1.76*	0.20	843		NON-MINORITY LOW
86.47	0.15	-4.98*	0.12	242		MINORITY NON-LOW
93.94	0.15	2.49*	0.08	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"4TH GRADE MATH"

ITEM #32

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
73,73	0,76			3,253	ALL STUDENTS
----SEX OF THE STUDENT ----					
71,81	0,26	-1,92*	0,20	1,628	MALE
76,12	0,20	2,39*	0,18	1,564	FEMALE
----SIZE OF THE COMMUNITY ----					
66,96	0,33	-6,77*	0,40	692	1
78,88	0,52	5,15*	0,28	975	2
75,02	0,32	1,29*	0,36	800	3
71,80	0,36	-1,93*	0,28	786	4
----RACE ----					
56,51	0,76	-17,22*	0,28	465	MINORITY
76,82	0,19	3,09*	0,09	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
66,38	0,22	-7,35*	0,19	1,128	LOW
77,59	0,18	3,86*	0,17	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
53,33	0,18	-20,40*	0,75	223	MINORITY LOW
69,93	0,32	-3,80*	0,27	843	NON-MINORITY LOW
59,45	0,29	-14,28*	0,53	242	MINORITY NON-LOW
79,93	0,20	6,20*	0,19	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #33

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
68,31	1,05			3,253	ALL STUDENTS
----SEX OF THE STUDENT ----					
64,65	0,39	-3,66*	0,20	1,628	MALE
72,69	0,26	4,38*	0,22	1,564	FEMALE
----SIZE OF THE COMMUNITY ----					
59,61	0,17	-8,70*	0,28	692	1
72,05	0,56	3,74*	0,43	975	2
70,94	0,22	2,63*	0,51	800	3
68,12	0,65	-0,19	0,45	786	4
----RACE ----					
51,53	0,65	-16,78*	0,24	465	MINORITY
71,35	0,37	3,04*	0,12	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
60,09	0,35	-8,22*	0,29	1,128	LOW
72,63	0,22	4,32*	0,18	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
48,65	0,16	-19,66*	1,07	223	MINORITY LOW
62,95	0,38	-5,36*	0,31	843	NON-MINORITY LOW
54,19	0,32	-14,12*	0,80	242	MINORITY NON-LOW
75,14	0,32	6,83*	0,21	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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                              OHIO DEPARTMENT OF EDUCATION
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                                     "4TH GRADE MATH"
                ITEM :34

             SE OF      GROUP      SE OF      SAMPLE
 P-VALUE    P-VALUE     EFFECT     EFFECT     SIZE            REPORTING GROUP

  87.26      1.21                             3,253           ALL STUDENTS

----SEX OF THE STUDENT                                   ----
  87.22      0.21       -0.04      0.21       1,628           MALE
  87.51      0.28        0.25      0.22       1,564           FEMALE

----SIZE OF THE COMMUNITY                                ----
  83.07      0.35       -4.19*     0.44         692           1
  90.14      0.42        2.88*     0.23         975           2
  88.08      0.39        0.82*     0.34         800           3
  86.38      0.42       -0.88*     0.39         786           4

----RACE                                                 ----
  79.24      0.39       -8.02*     0.53         465           MINORITY
  88.56      0.28        1.30*     0.09       2,697           NON-MINORITY

----SOCIO-ECONOMIC STATUS                                ----
  82.74      0.24       -4.52*     0.32       1,128           LOW
  89.63      0.34        2.37*     0.11       2,125           NON-LOW

----RACE BY SOCIO-ECONOMIC STATUS                        ----
  77.13      0.32      -10.13*     1.01         223           MINORITY LOW
  83.86      0.17       -3.40*     0.34         843           NON-MINORITY LOW
  81.19      0.24       -6.07*     0.22         242           MINORITY NON-LOW
  90.69      0.34        3.43*     0.14       1,854           NON-MINORITY NON-LOW

 *  INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #35

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
67.18	0.40			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
63.37	0.08	-3.81*	0.10	1,628	MALE
71.95	0.11	4.77*	0.07	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
60.27	0.12	-6.91*	0.18	692	1
73.10	0.17	5.92*	0.16	975	2
68.08	0.25	0.90*	0.17	800	3
64.84	0.19	-2.34*	0.19	786	4
----RACE					----
53.20	0.20	-13.98*	0.27	465	MINORITY
69.95	0.08	2.77*	0.05	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
59.78	0.10	-7.40*	0.11	1,128	LOW
71.06	0.10	3.88*	0.08	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
52.98	0.20	-14.20*	0.18	223	MINORITY LOW
62.51	0.10	-4.67*	0.16	843	NON-MINORITY LOW
53.40	0.08	-13.78*	0.27	242	MINORITY NON-LOW
73.32	0.12	6.14*	0.10	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #36

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
62.77	0.96			3,253	ALL STUDENTS
----SEX OF THE STUDENT----					
65.35	0.25	2.58*	0.12	1,628	MALE
60.35	0.21	-2.42*	0.17	1,564	FEMALE
----SIZE OF THE COMMUNITY----					
54.68	0.35	-8.09*	0.24	692	1
69.36	0.38	6.59*	0.20	975	2
62.49	0.36	-0.28	0.26	800	3
61.78	0.30	-0.99*	0.19	786	4
----RACE----					
40.58	0.32	-22.19*	0.20	465	MINORITY
66.53	0.15	3.76*	0.06	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS----					
51.74	0.26	-11.03*	0.19	1,128	LOW
68.57	0.25	5.80*	0.10	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS----					
35.86	0.15	-26.91*	0.58	223	MINORITY LOW
55.12	0.28	-7.65*	0.24	843	NON-MINORITY LOW
44.94	0.15	-17.83*	0.49	242	MINORITY NON-LOW
71.68	0.17	8.91*	0.10	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #37

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
79.96	1.35			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
77.62	0.26	-2.34*	0.16	1,628		MALE
82.98	0.28	3.02*	0.17	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
72.80	0.47	-7.16*	0.23	692		1
81.93	0.62	1.97*	0.23	975		2
81.53	0.45	1.57*	0.20	800		3
81.68	0.31	1.72*	0.29	786		4
----RACE					----	
66.04	0.31	-13.92*	0.53	465		MINORITY
82.64	0.17	2.68*	0.07	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
74.19	0.28	-5.77*	0.20	1,128		LOW
82.99	0.33	3.03*	0.08	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
62.29	0.29	-17.67*	0.57	223		MINORITY LOW
77.77	0.32	-2.19*	0.26	843		NON-MINORITY LOW
69.52	0.40	-10.44*	0.28	242		MINORITY NON-LOW
84.83	0.34	4.87*	0.11	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #38

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
89.96	0.89			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
88.43	0.20	-1.53*	0.21	1,628		MALE
92.33	0.26	2.37*	0.23	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
86.68	0.52	-3.28*	0.39	692		1
90.77	0.52	0.81*	0.38	975		2
91.13	0.33	1.17*	0.30	800		3
90.41	0.22	0.45	0.32	786		4
----RACE					----	
81.04	0.54	-8.92*	0.31	465		MINORITY
91.69	0.19	1.73*	0.09	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
86.96	0.25	-3.00*	0.23	1,128		LOW
91.54	0.22	1.58*	0.12	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
78.65	0.32	-11.31*	0.64	223		MINORITY LOW
89.74	0.29	-0.22	0.31	843		NON-MINORITY LOW
83.25	0.19	-6.71*	0.16	242		MINORITY NON-LOW
92.58	0.21	2.62*	0.14	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #39

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
49.22	0.70			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
49.26	0.43	0.04	0.24	1,628		MALE
49.52	0.32	0.30	0.32	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
45.05	0.80	-4.17*	0.49	692		1
54.40	0.59	5.18*	0.37	975		2
51.66	0.77	2.44*	0.36	800		3
44.09	0.70	-5.13*	0.53	786		4
----RACE					----	
38.28	1.28	-10.94*	0.38	465		MINORITY
51.33	0.36	2.11*	0.11	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
38.88	0.40	-10.34*	0.31	1,128		LOW
54.65	0.39	5.43*	0.20	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
30.39	0.40	-18.83*	0.77	223		MINORITY LOW
41.31	0.44	-7.91*	0.39	843		NON-MINORITY LOW
45.57	0.47	-3.65*	0.92	242		MINORITY NON-LOW
55.86	0.43	6.64*	0.22	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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                                  OHIO DEPARTMENT OF EDUCATION
                                DIVISION OF PLANNING AND EVALUATION

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                                         "4TH GRADE MATH"
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                SE OF      GROUP       SE OF      SAMPLE
  P-VALUE      P-VALUE     EFFECT      EFFECT      SIZE            REPORTING GROUP

   65.58        1.41                               3,253           ALL STUDENTS

----SEX OF THE STUDENT                                        ----
   64.02        0.30        -1.56*      0.08       1,628           MALE
   68.01        0.30         2.43*      0.10       1,564           FEMALE

----SIZE OF THE COMMUNITY                                     ----
   58.29        0.30        -7.29*      0.13         692           1
   70.66        0.29         5.08*      0.15         975           2
   64.64        0.29        -0.94*      0.09         800           3
   66.38        0.24         0.80*      0.16         786           4

----RACE                                                      ----
   53.17        0.19       -12.41*      0.17         465           MINORITY
   68.02        0.26         2.44*      0.03       2,697           NON-MINORITY

----SOCIO-ECONOMIC STATUS                                     ----
   58.59        0.27        -6.99*      0.09       1,128           LOW
   69.26        0.17         3.68*      0.05       2,125           NON-LOW

----RACE BY SOCIO-ECONOMIC STATUS                             ----
   52.75        0.06       -12.83*      0.20         223           MINORITY LOW
   61.04        0.20        -4.54*      0.12         843           NON-MINORITY LOW
   53.56        0.08       -12.02*      0.25         242           MINORITY NON-LOW
   71.18        0.29         5.60*      0.07       1,854           NON-MINORITY NON-LOW

 *  INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL
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OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #41

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
52.09	0.61			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
56.39	0.16	4.30*	0.12	1,628		MALE
48.13	0.18	-3.96*	0.16	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
44.18	0.32	-7.91*	0.24	692		1
63.51	0.24	11.42*	0.25	975		2
47.15	0.25	-4.94*	0.13	800		3
50.11	0.15	-1.98*	0.25	786		4
----RACE					----	
36.64	0.32	-15.45*	0.18	465		MINORITY
54.89	0.17	2.80*	0.05	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
43.23	0.19	-8.86*	0.17	1,128		LOW
56.75	0.18	4.66*	0.10	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
34.54	0.28	-17.55*	0.35	223		MINORITY LOW
45.49	0.22	-6.60*	0.19	843		NON-MINORITY LOW
38.59	0.35	-13.50*	0.37	242		MINORITY NON-LOW
59.14	0.19	7.05*	0.10	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #42

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
41.32	0.67			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
43.35	0.17	2.03*	0.16	1,628		MALE
39.18	0.33	-2.14*	0.30	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
32.07	0.38	-9.25*	0.60	692		1
52.25	0.33	10.93*	0.24	975		2
36.26	0.37	-5.06*	0.28	800		3
41.03	0.44	-0.29	0.41	786		4
----RACE					----	
23.29	0.34	-18.03*	0.41	465		MINORITY
44.43	0.22	3.11*	0.10	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
31.64	0.22	-9.68*	0.20	1,128		LOW
46.41	0.27	5.09*	0.10	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
21.35	0.14	-19.97*	0.80	223		MINORITY LOW
33.76	0.25	-7.56*	0.26	843		NON-MINORITY LOW
25.09	0.27	-16.23*	0.55	242		MINORITY NON-LOW
49.25	0.28	7.93*	0.13	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #43

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
89,22	0,73			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
88,18	0,24	-1,04*	0,19	1,628		MALE
90,66	0,23	1,44*	0,18	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
83,85	0,40	-5,37*	0,45	692		1
91,44	0,40	2,22*	0,31	975		2
90,43	0,29	1,21*	0,25	800		3
89,64	0,42	0,42	0,35	786		4
----RACE					----	
80,35	0,47	-8,87*	0,42	465		MINORITY
90,83	0,16	1,61*	0,08	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
85,27	0,20	-3,95*	0,22	1,128		LOW
91,30	0,26	2,08*	0,13	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
79,50	0,26	-9,72*	0,62	223		MINORITY LOW
86,95	0,20	-2,27*	0,25	843		NON-MINORITY LOW
81,13	0,32	-8,09*	0,31	242		MINORITY NON-LOW
92,59	0,15	3,37*	0,12	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #44

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
91.56	1.52			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
92.46	0.35	0.90*	0.17	1,628		MALE
90.84	0.29	-0.72*	0.24	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
89.47	0.48	-2.09*	0.41	692		1
93.56	0.30	2.00*	0.25	975		2
90.80	0.40	-0.76	0.45	800		3
91.66	0.18	0.10	0.32	786		4
----RACE					----	
84.23	0.68	-7.33*	0.47	465		MINORITY
92.73	0.28	1.17*	0.11	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
88.67	0.25	-2.89*	0.25	1,128		LOW
93.08	0.27	1.52*	0.13	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
85.13	0.35	-6.43*	0.27	223		MINORITY LOW
89.23	0.38	-2.33*	0.32	843		NON-MINORITY LOW
83.40	0.24	-8.16*	0.25	242		MINORITY NON-LOW
94.30	0.29	2.74*	0.15	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #45

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
71.27	1.36			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
69.58	0.11	-1.69*	0.06	1,628		MALE
73.76	0.27	2.49*	0.07	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
60.74	0.33	-10.53*	0.20	692		1
77.62	0.34	6.35*	0.10	975		2
71.06	0.30	-0.21*	0.06	800		3
72.36	0.32	1.09*	0.12	786		4
----RACE					----	
54.84	0.10	-16.43*	0.21	465		MINORITY
74.25	0.27	2.98*	0.03	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
61.51	0.13	-9.76*	0.09	1,128		LOW
76.40	0.13	5.13*	0.05	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
51.83	0.20	-19.44*	0.22	223		MINORITY LOW
64.40	0.12	-6.87*	0.10	843		NON-MINORITY LOW
57.61	0.11	-13.66*	0.07	242		MINORITY NON-LOW
78.70	0.30	7.43*	0.06	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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                             OHIO DEPARTMENT OF EDUCATION
                           DIVISION OF PLANNING AND EVALUATION

                          OHIO STATEWIDE ASSESSMENT - SPRING 1978

                                   "4TH GRADE MATH"
            ITEM #46

             SE OF      GROUP      SE OF      SAMPLE
 P-VALUE   P-VALUE     EFFECT     EFFECT     SIZE             REPORTING GROUP

  83,28      1,42                             3,253           ALL STUDENTS

----SEX OF THE STUDENT                                   ----
  82,79      0,17       -0,49*      0,12      1,628           MALE
  84,01      0,29        0,73*      0,14      1,564           FEMALE

----SIZE OF THE COMMUNITY                                ----
  76,66      0,44       -6,62*      0,16        692           1
  86,60      0,43        3,32*      0,18        975           2
  82,87      0,34       -0,41*      0,12        800           3
  85,01      0,31        1,73*      0,20        786           4

----RACE                                                 ----
  68,89      0,15      -14,39*      0,23        465           MINORITY
  85,74      0,23        2,46*      0,05      2,697           NON-MINORITY

----SOCIO-ECONOMIC STATUS                                ----
  77,51      0,26       -5,77*      0,13      1,128           LOW
  86,31      0,24        3,03*      0,08      2,125           NON-LOW

----RACE BY SOCIO-ECONOMIC STATUS                        ----
  66,94      0,44      -16,34*      0,36        223           MINORITY LOW
  80,14      0,32       -3,14*      0,15        843           NON-MINORITY LOW
  70,70      0,16      -12,58*      0,36        242           MINORITY NON-LOW
  88,26      0,15        4,98*      0,09      1,854           NON-MINORITY NON-LOW

 *  INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL
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OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM 147

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
87.59	0.85			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
85.77	0.22	-1.82*	0.15	1,628		MALE
90.70	0.29	3.11*	0.27	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
81.13	0.36	-6.46*	0.29	692		1
89.13	0.62	1.54*	0.26	975		2
88.29	0.45	0.70*	0.27	800		3
90.12	0.35	2.53*	0.26	786		4
----RACE					----	
77.36	0.54	-10.23*	0.42	465		MINORITY
90.03	0.22	2.44*	0.07	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
81.01	0.55	-6.58*	0.35	1,128		LOW
91.05	0.23	3.46*	0.10	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
73.09	0.39	-14.50*	0.71	223		MINORITY LOW
84.90	0.32	-2.69*	0.16	843		NON-MINORITY LOW
81.30	0.16	-6.29*	0.19	242		MINORITY NON-LOW
92.34	0.28	4.75*	0.13	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #48

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
85.51	0.95			3,253	ALL STUDENTS
----SEX OF THE STUDENT ----					
84.94	0.29	-0.57*	0.16	1,628	MALE
86.77	0.31	1.26*	0.28	1,564	FEMALE
----SIZE OF THE COMMUNITY ----					
81.87	0.48	-3.64*	0.34	692	1
88.37	0.38	2.86*	0.26	975	2
84.62	0.47	-0.89*	0.24	800	3
85.92	0.52	0.41	0.29	786	4
----RACE ----					
76.00	0.46	-9.51*	0.31	465	MINORITY
87.34	0.24	1.83*	0.08	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
80.67	0.24	-4.84*	0.27	1,128	LOW
88.05	0.27	2.54*	0.12	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
70.12	0.15	-15.39*	0.86	223	MINORITY LOW
83.64	0.24	-1.87*	0.23	843	NON-MINORITY LOW
81.43	0.20	-4.08*	0.21	242	MINORITY NON-LOW
89.01	0.26	3.50*	0.15	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #49

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
74.11	1.11			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
74.72	0.31	0.61*	0.19	1,628	MALE
74.08	0.27	-0.03	0.22	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
64.63	0.73	-9.48*	0.54	692	1
78.55	0.56	4.44*	0.35	975	2
74.12	0.63	0.01	0.27	800	3
76.34	0.59	2.23*	0.32	786	4
----RACE					----
50.59	0.64	-23.52*	0.71	465	MINORITY
78.21	0.28	4.10*	0.09	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
67.00	0.34	-7.11*	0.22	1,128	LOW
77.84	0.36	3.73*	0.13	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
47.23	0.27	-26.88*	1.07	223	MINORITY LOW
72.21	0.36	-1.90*	0.28	843	NON-MINORITY LOW
53.70	0.40	-20.41*	0.86	242	MINORITY NON-LOW
80.91	0.38	6.80*	0.14	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM :50

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
84.24	0.28			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
80.73	0.07	-3.51*	0.04	1,628		MALE
88.82	0.10	4.58*	0.08	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
80.17	0.11	-4.07*	0.09	692		1
85.37	0.15	1.13*	0.08	975		2
84.37	0.13	0.13*	0.05	800		3
85.94	0.07	1.70*	0.10	786		4
----RACE					----	
76.98	0.19	-7.26*	0.04	465		MINORITY
85.89	0.06	1.65*	0.02	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
81.37	0.09	-2.87*	0.06	1,128		LOW
85.74	0.07	1.50*	0.02	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
77.15	0.06	-7.09*	0.19	223		MINORITY LOW
83.18	0.09	-1.06*	0.07	843		NON-MINORITY LOW
76.83	0.15	-7.41*	0.18	242		MINORITY NON-LOW
87.12	0.06	2.88*	0.03	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM :51

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
84.67	1.13			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
83.51	0.21	-1.16*	0.12	1,628		MALE
86.69	0.25	2.02*	0.15	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
81.88	0.30	-2.79*	0.18	692		1
84.50	0.31	-0.17	0.23	975		2
84.83	0.23	0.16	0.17	800		3
86.86	0.26	2.19*	0.18	786		4
----RACE					----	
74.67	0.39	-10.00*	0.18	465		MINORITY
86.67	0.22	2.00*	0.05	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
81.22	0.19	-3.45*	0.16	1,128		LOW
86.49	0.27	1.82*	0.05	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
73.15	0.16	-11.52*	0.38	223		MINORITY LOW
83.79	0.22	-0.88*	0.19	843		NON-MINORITY LOW
76.08	0.32	-8.59*	0.51	242		MINORITY NON-LOW
87.97	0.15	3.30*	0.06	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #52

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
92.78	0.68			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.38	0.14	-1.40*	0.10	1,628		MALE
94.75	0.11	1.97*	0.11	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
87.58	0.18	-5.20*	0.30	692		1
95.05	0.40	2.27*	0.13	975		2
92.88	0.22	0.10	0.15	800		3
94.08	0.18	1.30*	0.23	786		4
----RACE					----	
83.00	0.40	-9.78*	0.13	465		MINORITY
94.56	0.14	1.78*	0.06	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
89.72	0.26	-3.06*	0.18	1,128		LOW
94.38	0.12	1.60*	0.08	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
81.44	0.26	-11.34*	0.21	223		MINORITY LOW
91.99	0.13	-0.79*	0.22	843		NON-MINORITY LOW
84.44	0.13	-8.34*	0.16	242		MINORITY NON-LOW
95.73	0.10	2.95*	0.08	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #53

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
57.80	1.09			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
55.06	0.29	-2.74*	0.23	1,628	MALE
61.81	0.25	4.01*	0.24	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
51.61	0.45	-6.19*	0.37	692	1
61.35	0.63	3.55*	0.49	975	2
58.18	0.49	0.38	0.37	800	3
58.16	0.17	0.36	0.42	786	4
----RACE					----
46.36	0.61	-11.44*	0.45	465	MINORITY
60.23	0.23	2.43*	0.11	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
53.09	0.21	-4.71*	0.41	1,128	LOW
60.28	0.29	2.48*	0.17	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
42.62	0.15	-15.18*	0.96	223	MINORITY LOW
57.31	0.35	-0.49	0.32	843	NON-MINORITY LOW
49.83	0.34	-7.97*	0.38	242	MINORITY NON-LOW
61.55	0.36	3.75*	0.20	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM 154

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
64.67	0.79			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
61.17	0.25	-3.50*	0.25	1,628	MALE
69.19	0.39	4.52*	0.38	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
59.56	0.37	-5.11*	0.82	692	1
67.83	0.59	3.16*	0.48	975	2
63.27	0.39	-1.40*	0.40	800	3
66.40	0.43	1.73*	0.46	786	4
----RACE					----
53.91	0.60	-10.76*	0.39	465	MINORITY
66.98	0.23	2.31*	0.12	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
57.43	0.31	-7.24*	0.34	1,128	LOW
68.48	0.28	3.81*	0.20	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
50.35	0.10	-14.32*	0.81	223	MINORITY LOW
60.30	0.33	-4.37*	0.31	843	NON-MINORITY LOW
57.21	0.51	-7.46*	0.52	242	MINORITY NON-LOW
69.99	0.29	5.32*	0.24	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM 155

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
69.83	0.74			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
68.53	0.05	-1.30*	0.04	1,628		MALE
71.91	0.14	2.08*	0.05	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
63.95	0.18	-5.88*	0.05	692		1
72.63	0.16	2.80*	0.07	975		2
69.87	0.15	0.04	0.04	800		3
71.14	0.08	1.31*	0.05	786		4
----RACE					----	
50.42	0.13	-19.41*	0.10	465		MINORITY
73.35	0.11	3.52*	0.02	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
63.19	0.09	-6.64*	0.05	1,128		LOW
73.33	0.05	3.50*	0.03	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
45.61	0.02	-24.22*	0.16	223		MINORITY LOW
68.08	0.07	-1.75*	0.05	843		NON-MINORITY LOW
54.87	0.13	-14.96*	0.07	242		MINORITY NON-LOW
75.74	0.14	5.91*	0.04	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #56

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
18.25	1.27			3,253	ALL STUDENTS
----SEX OF THE STUDENT					----
17.22	0.27	-1.03*	0.09	1,628	MALE
19.41	0.17	1.16*	0.15	1,564	FEMALE
----SIZE OF THE COMMUNITY					----
19.58	0.33	1.33*	0.15	692	1
18.94	0.33	0.69*	0.15	975	2
15.67	0.29	-2.58*	0.15	800	3
19.02	0.20	0.77*	0.08	786	4
----RACE					----
17.46	0.17	-0.79*	0.18	465	MINORITY
18.41	0.21	0.16*	0.03	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
16.84	0.28	-1.41*	0.03	1,128	LOW
18.99	0.25	0.74*	0.08	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
15.46	0.17	-2.79*	0.29	223	MINORITY LOW
17.27	0.32	-0.98*	0.02	843	NON-MINORITY LOW
19.31	0.25	1.06*	0.14	242	MINORITY NON-LOW
18.93	0.25	0.68*	0.08	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #57

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
60,08	1,34			3,253		ALL STUDENTS
----SEX OF THE STUDENT					----	
58,21	0,24	-1,87*	0,14	1,628		MALE
63,05	0,26	2,97*	0,20	1,564		FEMALE
----SIZE OF THE COMMUNITY					----	
53,34	0,31	-6,74*	0,32	692		1
63,88	0,63	3,80*	0,36	975		2
59,77	0,48	-0,31	0,33	800		3
61,25	0,45	1,17*	0,27	786		4
----RACE					----	
41,72	0,23	-18,36*	0,23	465		MINORITY
63,58	0,23	3,50*	0,07	2,697		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
51,15	0,26	-8,93*	0,28	1,128		LOW
64,77	0,24	4,69*	0,12	2,125		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
39,46	0,17	-20,62*	0,88	223		MINORITY LOW
54,90	0,24	-5,18*	0,18	843		NON-MINORITY LOW
43,80	0,36	-16,28*	0,38	242		MINORITY NON-LOW
67,50	0,23	7,42*	0,15	1,854		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

ITEM #58

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
68.81	1.13			3,253	ALL STUDENTS
----SEX OF THE STUDENT ----					
68.18	0.23	-0.63*	0.17	1,628	MALE
70.17	0.27	1.36*	0.21	1,564	FEMALE
----SIZE OF THE COMMUNITY ----					
58.58	0.46	-10.23*	0.27	692	1
73.00	0.50	4.19*	0.26	975	2
70.73	0.39	1.92*	0.27	800	3
70.01	0.27	1.20*	0.33	786	4
----RACE ----					
52.32	0.40	-16.49*	0.39	465	MINORITY
71.99	0.23	3.18*	0.09	2,697	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
60.13	0.36	-8.68*	0.22	1,128	LOW
73.37	0.20	4.56*	0.16	2,125	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
49.26	0.36	-19.55*	0.58	223	MINORITY LOW
63.31	0.34	-5.50*	0.20	843	NON-MINORITY LOW
55.15	0.38	-13.66*	0.26	242	MINORITY NON-LOW
75.92	0.22	7.11*	0.18	1,854	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM # 1

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
92.12	1.34			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
91.03	0.28	-1.09*	0.16	1,337	MALE
93.20	0.27	1.08*	0.22	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
92.12	0.35	0.00	0.25	519	1
91.61	0.31	-0.51	0.28	937	2
92.07	0.29	-0.05	0.22	707	3
92.93	0.34	0.81*	0.14	724	4
----RACE ----					
87.52	0.28	-4.60*	0.20	293	MINORITY
92.72	0.30	0.60*	0.07	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
91.74	0.23	-0.38*	0.18	912	LOW
92.30	0.33	0.18	0.13	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
91.43	0.26	-0.69*	0.15	141	MINORITY LOW
91.76	0.27	-0.36	0.24	768	NON-MINORITY LOW
83.76	0.28	-8.36*	0.37	152	MINORITY NON-LOW
93.13	0.22	1.01*	0.16	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM : 2

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
94.96	1.01			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
93.60	0.39	-1.36*	0.22	1,337	MALE
96.21	0.36	1.25*	0.25	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
94.93	0.47	-0.03	0.37	519	1
95.85	0.49	0.89*	0.27	937	2
94.89	0.60	-0.07	0.59	707	3
93.72	0.50	-1.24*	0.49	724	4
----RACE					----
94.02	0.40	-0.94	0.56	293	MINORITY
95.12	0.42	0.16*	0.08	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
94.63	0.36	-0.33	0.26	912	LOW
95.11	0.43	0.15	0.13	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
94.56	0.32	-0.40*	0.20	141	MINORITY LOW
94.80	0.44	-0.16	0.28	768	NON-MINORITY LOW
93.50	0.28	-1.46*	0.26	152	MINORITY NON-LOW
95.25	0.42	0.29	0.15	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM : 3

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
83,70	1,21			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
82,12	0,57	-1,58*	0,27	1,337		MALE
85,12	0,38	1,42*	0,30	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
82,74	0,81	-0,96	0,65	519		1
85,57	0,66	1,87*	0,51	937		2
82,46	0,70	-1,24	0,80	707		3
82,99	0,46	-0,71	0,56	724		4
----RACE					----	
80,79	0,72	-2,91*	0,84	293		MINORITY
84,17	0,48	0,47*	0,13	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
81,60	0,62	-2,10*	0,33	912		LOW
84,69	0,49	0,99*	0,28	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
80,35	0,70	-3,35*	1,33	141		MINORITY LOW
82,16	0,65	-1,54*	0,36	768		NON-MINORITY LOW
81,21	1,10	-2,49*	0,41	152		MINORITY NON-LOW
85,02	0,49	1,32*	0,28	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM : 4

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
95.74	0.65			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
94.89	0.44	-0.85*	0.35	1,337		MALE
96.49	0.33	0.75*	0.30	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
94.15	0.78	-1.59*	0.71	519		1
96.40	0.45	0.66	0.50	937		2
95.42	0.34	-0.32	0.48	707		3
96.54	0.35	0.80	0.45	724		4
----RACE					----	
92.77	0.51	-2.97*	0.93	293		MINORITY
96.25	0.41	0.51*	0.10	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
94.02	0.49	-1.72*	0.50	912		LOW
96.55	0.30	0.81*	0.27	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
91.77	0.59	-3.97*	0.46	141		MINORITY LOW
94.88	0.55	-0.86*	0.40	768		NON-MINORITY LOW
93.73	0.42	-2.01*	0.34	152		MINORITY NON-LOW
96.82	0.35	1.08*	0.18	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM # 5

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
93,11	1.50			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.71	0.23	-1.40*	0.20	1,337		MALE
94.40	0.57	1.29*	0.33	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
90.85	0.70	-2.26*	0.42	519		1
94.34	0.55	1.23*	0.19	937		2
93.41	0.53	0.30	0.35	707		3
93.06	0.34	-0.05	0.20	724		4
----RACE					----	
85.55	0.30	-7.56*	0.50	293		MINORITY
94.17	0.36	1.06*	0.08	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
90.97	0.30	-2.14*	0.24	912		LOW
94.11	0.50	1.00*	0.11	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
84.30	0.44	-8.81*	0.82	141		MINORITY LOW
92.62	0.46	-0.49	0.27	768		NON-MINORITY LOW
86.76	0.67	-6.35*	0.49	152		MINORITY NON-LOW
94.83	0.19	1.72*	0.13	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM : 6

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
93.40	1.54			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.18	0.37	-2.22*	0.28	1,337		MALE
95.42	0.49	2.02*	0.24	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
90.51	0.61	-2.89*	0.50	519		1
95.14	0.63	1.74*	0.35	937		2
93.80	0.71	0.40	0.46	707		3
93.10	0.41	-0.30	0.36	724		4
----RACE					----	
86.64	0.50	-6.76*	0.52	293		MINORITY
94.40	0.55	1.00*	0.07	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
90.18	0.47	-3.22*	0.41	912		LOW
94.92	0.40	1.52*	0.15	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
82.68	0.88	-10.72*	0.76	141		MINORITY LOW
92.02	0.57	-1.38*	0.28	768		NON-MINORITY LOW
90.44	0.43	-2.96*	0.39	152		MINORITY NON-LOW
95.40	0.41	2.00*	0.20	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM : 7

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
76.74	1.14			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
76.12	0.38	-0.62	0.48	1,337		MALE
77.35	0.63	0.61	0.54	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
71.62	1.07	-5.12*	0.71	519		1
79.45	0.69	2.71*	0.67	937		2
76.24	0.79	-0.50	0.66	707		3
77.90	0.55	1.16	0.77	724		4
----RACE					----	
61.81	0.94	-14.93*	1.35	293		MINORITY
78.94	0.56	2.20*	0.18	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
71.26	0.79	-5.48*	0.64	912		LOW
79.32	0.68	2.58*	0.27	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
61.33	0.63	-15.41*	1.48	141		MINORITY LOW
73.54	0.83	-3.20*	0.78	768		NON-MINORITY LOW
62.27	0.55	-14.47*	1.22	152		MINORITY NON-LOW
81.21	0.67	4.47*	0.35	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM # 8

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
93.83	0.51			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
92.89	0.15	-0.94*	0.12	1,337	MALE
94.87	0.19	1.04*	0.19	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
92.03	0.30	-1.80*	0.21	519	1
94.18	0.23	0.35	0.18	937	2
95.46	0.26	1.63*	0.12	707	3
93.43	0.34	-0.40*	0.12	724	4
----RACE ----					
87.09	0.33	-6.74*	0.21	293	MINORITY
94.83	0.16	1.00*	0.04	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
91.37	0.17	-2.46*	0.17	912	LOW
94.99	0.21	1.16*	0.07	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
85.57	0.33	-8.26*	0.55	141	MINORITY LOW
92.83	0.18	-1.00*	0.19	768	NON-MINORITY LOW
88.56	0.15	-5.27*	0.40	152	MINORITY NON-LOW
95.67	0.19	1.84*	0.06	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

ITEM : 9

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
87.36	0.69			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
88.29	0.30	0.93*	0.29	1,337		MALE
86.57	0.29	-0.79*	0.28	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
81.41	0.75	-5.95*	0.53	519		1
88.13	0.47	0.77	0.48	937		2
88.51	0.45	1.15*	0.36	707		3
90.60	0.31	3.24*	0.25	724		4
----RACE					----	
70.04	0.74	-17.32*	0.67	293		MINORITY
89.89	0.29	2.53*	0.10	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
82.21	0.35	-5.15*	0.35	912		LOW
89.79	0.27	2.43*	0.18	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
71.64	0.54	-15.72*	0.44	141		MINORITY LOW
84.90	0.37	-2.46*	0.39	768		NON-MINORITY LOW
68.51	0.44	-18.85*	0.65	152		MINORITY NON-LOW
91.98	0.31	4.62*	0.14	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #10

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
85.52	1.25			2,887	ALL STUDENTS
----SEX OF THE STUDENT----					
85.68	0.28	0.16	0.38	1,337	MALE
85.32	0.39	-0.20	0.36	1,546	FEMALE
----SIZE OF THE COMMUNITY----					
83.14	0.90	-2.38*	0.69	519	1
88.57	0.62	3.05*	0.64	937	2
84.59	0.81	-0.93*	0.36	707	3
84.02	0.41	-1.50*	0.41	724	4
----RACE----					
73.51	0.81	-12.01*	0.92	293	MINORITY
87.24	0.42	1.72*	0.16	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS----					
82.09	0.47	-3.43*	0.57	912	LOW
87.13	0.39	1.61*	0.30	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS----					
74.56	0.62	-10.96*	1.71	141	MINORITY LOW
83.89	0.56	-1.63*	0.71	768	NON-MINORITY LOW
72.49	0.58	-13.03*	1.09	152	MINORITY NON-LOW
88.65	0.56	3.13*	0.20	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #11

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
31.10	1.55			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
31.57	0.55	0.47	0.77	1,337		MALE
30.68	0.56	-0.42	0.48	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
26.00	1.01	-5.10*	1.15	519		1
35.62	0.79	4.52*	1.04	937		2
30.16	0.75	-0.94	1.09	707		3
29.96	0.66	-1.14	0.98	724		4
----RACE					----	
13.57	0.81	-17.53*	1.12	293		MINORITY
33.57	0.67	2.47*	0.23	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
27.02	0.71	-4.08*	0.55	912		LOW
33.02	0.72	1.92*	0.36	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
12.74	0.48	-18.36*	1.37	141		MINORITY LOW
30.23	0.63	-0.87	0.64	768		NON-MINORITY LOW
14.36	0.87	-16.74*	1.66	152		MINORITY NON-LOW
34.98	0.75	3.88*	0.41	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #12

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
77.91	0.85			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
82.99	0.22	5.08*	0.20	1,337	MALE
73.68	0.32	-4.23*	0.31	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
71.41	0.66	-6.50*	0.37	519	1
81.08	0.41	3.17*	0.23	937	2
76.98	0.25	-0.93*	0.38	707	3
80.06	0.35	2.15*	0.25	724	4
----RACE					----
58.88	0.53	-19.03*	0.69	293	MINORITY
80.74	0.25	2.83*	0.07	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
70.28	0.42	-7.63*	0.38	912	LOW
81.50	0.31	3.59*	0.15	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
53.49	0.44	-24.42*	0.34	141	MINORITY LOW
74.35	0.28	-3.56*	0.31	768	NON-MINORITY LOW
64.07	0.35	-13.84*	0.75	152	MINORITY NON-LOW
83.42	0.33	5.51*	0.18	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #13

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
90.02	1.57			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
90.45	0.35	0.43	0.26	1,337		MALE
89.70	0.43	-0.32	0.27	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
88.19	0.74	-1.83*	0.64	519		1
90.73	0.66	0.71	0.62	937		2
91.19	0.57	1.17*	0.40	707		3
89.54	0.65	-0.48	0.32	724		4
----RACE					----	
77.24	0.60	-12.78*	0.59	293		MINORITY
91.78	0.58	1.76*	0.12	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
85.77	0.61	-4.25*	0.37	912		LOW
92.02	0.39	2.00*	0.16	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
75.99	0.71	-14.03*	0.48	141		MINORITY LOW
87.92	0.69	-2.10*	0.36	768		NON-MINORITY LOW
78.45	0.64	-11.57*	0.62	152		MINORITY NON-LOW
93.40	0.32	3.38*	0.20	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #14

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
96.64	1.19			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
96.95	0.31	0.31	0.32	1,337		MALE
96.36	0.45	-0.28	0.33	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
95.66	0.80	-0.98	0.59	519		1
96.65	0.57	0.01	0.28	937		2
97.41	0.53	0.77	0.52	707		3
96.81	0.45	0.17	0.27	724		4
----RACE					----	
94.61	0.71	-2.03*	0.60	293		MINORITY
96.91	0.45	0.27*	0.08	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
96.27	0.27	-0.37	0.44	912		LOW
96.82	0.47	0.18	0.15	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
94.26	0.44	-2.38*	0.28	141		MINORITY LOW
96.71	0.33	0.07	0.35	768		NON-MINORITY LOW
94.95	0.41	-1.69*	0.29	152		MINORITY NON-LOW
96.99	0.51	0.35*	0.16	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #15

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
78.99	0.72			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
81.01	0.19	2.02*	0.13	1,337	MALE
77.29	0.29	-1.70*	0.18	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
72.91	0.39	-6.08*	0.26	519	1
81.93	0.34	2.94*	0.19	937	2
77.83	0.42	-1.16*	0.23	707	3
81.29	0.12	2.30*	0.13	724	4
----RACE					----
60.36	0.41	-18.63*	0.26	293	MINORITY
81.58	0.14	2.59*	0.05	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
73.80	0.23	-5.19*	0.16	912	LOW
81.43	0.20	2.44*	0.08	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
54.58	0.14	-24.41*	0.38	141	MINORITY LOW
78.05	0.17	-0.94*	0.18	768	NON-MINORITY LOW
65.91	0.23	-13.08*	0.28	152	MINORITY NON-LOW
83.06	0.22	4.07*	0.09	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM 116

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
91.46	1.37			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
92.08	0.26	0.62*	0.19	1,337		MALE
91.04	0.48	-0.42	0.28	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
88.55	0.71	-2.91*	0.38	519		1
92.37	0.68	0.91*	0.37	937		2
91.74	0.50	0.28	0.38	707		3
92.49	0.40	1.03*	0.23	724		4
----RACE					----	
79.88	0.49	-11.58*	0.61	293		MINORITY
93.07	0.32	1.61*	0.06	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
87.04	0.35	-4.42*	0.27	912		LOW
93.53	0.52	2.07*	0.12	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
76.64	0.46	-14.82*	1.10	141		MINORITY LOW
89.53	0.33	-1.93*	0.25	768		NON-MINORITY LOW
83.01	0.72	-8.45*	0.28	152		MINORITY NON-LOW
94.56	0.51	3.10*	0.15	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #17

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
83.36	0.62			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
83.89	0.39	0.53	0.33	1,337	MALE
82.84	0.45	-0.52	0.43	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
73.30	0.97	-10.06*	0.89	519	1
87.90	0.58	4.54*	0.52	937	2
85.31	0.75	1.95*	0.40	707	3
83.98	0.41	0.62	0.53	724	4
----RACE					----
69.27	0.83	-14.09*	0.64	293	MINORITY
85.32	0.42	1.96*	0.13	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
78.71	0.61	-4.65*	0.53	912	LOW
85.55	0.43	2.19*	0.21	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
69.38	0.63	-13.98*	1.09	141	MINORITY LOW
80.89	0.51	-2.47*	0.44	768	NON-MINORITY LOW
69.17	0.63	-14.19*	0.82	152	MINORITY NON-LOW
87.18	0.44	3.82*	0.29	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #18

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
83.77	1.17			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
82.39	0.91	-1.38*	0.48	1,337		MALE
85.16	0.65	1.39*	0.58	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
74.65	1.66	-9.12*	0.69	519		1
87.71	0.67	3.94*	0.90	937		2
85.89	0.56	2.12*	0.53	707		3
84.26	0.66	0.49	0.47	724		4
----RACE					----	
68.39	1.13	-15.38*	1.09	293		MINORITY
85.98	0.72	2.21*	0.24	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
77.57	1.04	-6.20*	0.75	912		LOW
86.68	0.59	2.91*	0.30	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
66.36	0.95	-17.41*	0.66	141		MINORITY LOW
80.19	0.81	-3.58*	0.60	768		NON-MINORITY LOW
70.34	0.78	-13.43*	0.42	152		MINORITY NON-LOW
88.41	0.64	4.64*	0.31	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #19

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
71.33	0.69			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
70.90	0.32	-0.43	0.26	1,337		MALE
71.84	0.32	0.51	0.27	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
59.31	0.50	-12.02*	0.68	519		1
75.74	0.52	4.41*	0.22	937		2
73.16	0.64	1.83*	0.51	707		3
74.08	0.33	2.75*	0.26	724		4
----RACE					----	
48.71	0.25	-22.62*	0.46	293		MINORITY
74.50	0.39	3.17*	0.09	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
61.77	0.36	-9.56*	0.25	912		LOW
75.83	0.27	4.50*	0.14	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
43.29	0.30	-28.04*	0.66	141		MINORITY LOW
65.77	0.37	-5.56*	0.38	768		NON-MINORITY LOW
53.92	0.33	-17.41*	0.84	152		MINORITY NON-LOW
78.17	0.31	6.84*	0.17	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #20

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
62.47	1.72			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
66.82	0.47	4.35*	0.39	1,337	MALE
58.66	0.70	-3.81*	0.50	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
48.50	0.94	-13.97*	1.12	519	1
67.45	0.88	4.98*	0.67	937	2
66.07	0.61	3.60*	0.58	707	3
64.49	0.70	2.02*	0.79	724	4
----RACE ----					
31.72	0.75	-30.75*	0.99	293	MINORITY
66.75	0.48	4.28*	0.22	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
51.97	0.43	-10.50*	0.44	912	LOW
67.41	0.53	4.94*	0.32	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
25.89	0.60	-36.58*	0.96	141	MINORITY LOW
57.84	0.55	-4.63*	0.64	768	NON-MINORITY LOW
37.31	0.56	-25.16*	1.43	152	MINORITY NON-LOW
70.50	0.49	8.03*	0.37	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #21

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
69.17	0.66			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
71.48	0.51	2.31*	0.43	1,337		MALE
67.18	0.57	-1.99*	0.56	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
58.61	0.97	-10.56*	1.10	519		1
74.49	0.92	5.32*	0.73	937		2
70.74	1.45	1.57*	0.61	707		3
69.46	0.38	0.29	0.75	724		4
----RACE					----	
41.47	0.62	-27.70*	1.01	293		MINORITY
73.16	0.59	3.99*	0.22	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
56.35	0.46	-12.82*	0.53	912		LOW
75.19	0.52	6.02*	0.38	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
33.81	0.56	-35.36*	1.50	141		MINORITY LOW
61.64	0.55	-7.53*	0.62	768		NON-MINORITY LOW
48.83	1.24	-20.34*	2.02	152		MINORITY NON-LOW
77.99	0.57	8.82*	0.42	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :22

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
72.67	1.58			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
75.25	0.10	2.58*	0.09	1,337		MALE
70.46	0.40	-2.21*	0.10	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
63.35	0.42	-9.32*	0.17	519		1
77.83	0.42	5.16*	0.14	937		2
74.05	0.40	1.38*	0.14	707		3
72.23	0.44	-0.44*	0.11	724		4
----RACE					----	
46.72	0.16	-25.95*	0.20	293		MINORITY
76.30	0.52	3.63*	0.03	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
60.49	0.15	-12.18*	0.12	912		LOW
78.39	0.52	5.72*	0.05	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
41.33	0.10	-31.34*	0.27	141		MINORITY LOW
64.82	0.14	-7.85*	0.14	768		NON-MINORITY LOW
51.89	0.32	-20.78*	0.28	152		MINORITY NON-LOW
81.13	0.52	8.46*	0.06	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #23

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
75.88	1.06			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
77.98	0.32	2.10*	0.31	1,337	MALE
74.10	0.44	-1.78*	0.36	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
66.55	0.41	-9.33*	0.72	519	1
80.10	0.50	4.22*	0.41	937	2
77.37	0.78	1.49*	0.55	707	3
76.76	0.59	0.88	0.45	724	4
----RACE					----
54.90	0.51	-20.98*	0.71	293	MINORITY
78.91	0.43	3.03*	0.12	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
66.54	0.43	-9.34*	0.41	912	LOW
80.27	0.41	4.39*	0.19	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
50.08	0.44	-25.80*	0.71	141	MINORITY LOW
70.29	0.36	-5.59*	0.50	768	NON-MINORITY LOW
59.53	0.27	-16.35*	0.61	152	MINORITY NON-LOW
82.53	0.45	6.65*	0.22	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #24

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
73.58	0.76			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
73.20	0.56	-0.38	0.38	1,337		MALE
73.96	0.46	0.38	0.46	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
65.35	0.90	-8.23*	0.65	519		1
77.99	1.00	4.41*	0.73	937		2
75.75	0.40	2.17*	0.51	707		3
72.51	0.70	-1.07*	0.50	724		4
----RACE					----	
56.73	0.79	-16.85*	1.01	293		MINORITY
75.91	0.45	2.33*	0.16	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
66.12	0.69	-7.46*	0.38	912		LOW
77.09	0.49	3.51*	0.27	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
52.73	0.68	-20.85*	1.17	141		MINORITY LOW
69.16	0.76	-4.42*	0.49	768		NON-MINORITY LOW
60.58	0.48	-13.00*	1.42	152		MINORITY NON-LOW
78.75	0.53	5.17*	0.36	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :25

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
70,76	1,16			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
69,91	0,78	-0,85	0,45	1,337		MALE
71,64	0,68	0,88	0,62	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
61,02	1,16	-9,74*	1,37	519		1
76,38	1,11	5,62*	0,85	937		2
72,45	1.40	1,69*	0,70	707		3
69,75	1,11	-1,01	0,56	724		4
----RACE					----	
55,86	0,87	-14,90*	1,33	293		MINORITY
72,78	0,65	2,02*	0,22	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
63,00	0,86	-7,76*	0,52	912		LOW
74,41	0,61	3,65*	0,32	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
52,48	1,07	-18,28*	1,25	141		MINORITY LOW
65,37	0,88	-5,39*	0,54	768		NON-MINORITY LOW
59,12	0,65	-11,64*	1,69	152		MINORITY NON-LOW
75,89	0,61	5,13*	0,41	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

ITEM 126

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
93,92	1,67			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
93,44	0,14	-0,48*	0,13	1,337		MALE
94,32	0,45	0,40	0,22	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
90,63	0,54	-3,29*	0,25	519		1
95,39	0,42	1,47*	0,20	937		2
94,21	0,43	0,29	0,21	707		3
94,46	0,30	0,54*	0,15	724		4
----RACE					----	
85,24	0,29	-8,68*	0,36	293		MINORITY
95,20	0,33	1,28*	0,05	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
91,09	0,20	-2,83*	0,21	912		LOW
95,25	0,43	1,33*	0,08	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
83,51	0,50	-10,41*	0,39	141		MINORITY LOW
93,16	0,21	-0,76*	0,24	768		NON-MINORITY LOW
86,90	0,33	-7,02*	0,47	152		MINORITY NON-LOW
96,06	0,54	2,14*	0,09	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 127

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
70.25	1.66			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
73.84	0.35	3.59*	0.31	1,337	MALE
67.13	0.60	-3.12*	0.42	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
61.41	0.73	-8.84*	1.01	519	1
75.00	0.63	4.75*	0.71	937	2
71.58	1.38	1.33*	0.62	707	3
70.02	0.45	-0.23	0.49	724	4
----RACE ----					
43.64	0.77	-26.61*	0.82	293	MINORITY
74.00	0.60	3.75*	0.13	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
58.43	0.57	-11.82*	0.49	912	LOW
75.81	0.54	5.56*	0.25	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
36.66	0.56	-33.59*	0.92	141	MINORITY LOW
63.35	0.49	-6.90*	0.60	768	NON-MINORITY LOW
50.34	0.93	-19.91*	0.71	152	MINORITY NON-LOW
78.47	0.44	8.22*	0.27	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE MATH"

ITEM 128

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
50.25	1.49			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
56.73	0.87	6.48*	0.51	1,337		MALE
44.68	0.64	-5.57*	0.59	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
38.78	0.96	-11.47*	1.01	519		1
55.86	0.83	5.61*	0.58	937		2
49.08	1.13	-1.17	0.89	707		3
53.55	1.04	3.30*	0.60	724		4
----RACE					----	
26.84	0.57	-23.41*	0.81	293		MINORITY
53.62	0.69	3.37*	0.17	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
41.93	0.47	-8.32*	0.48	912		LOW
54.16	0.64	3.91*	0.31	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
22.52	0.75	-27.73*	1.75	141		MINORITY LOW
46.64	0.67	-3.61*	0.47	768		NON-MINORITY LOW
31.00	1.47	-19.25*	0.44	152		MINORITY NON-LOW
56.55	0.66	6.30*	0.37	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

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ITEM 129

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
67.71	1.60			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
73.72	0.66	6.01*	0.48	1,337		MALE
62.36	0.65	-5.35*	0.59	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
56.74	1.82	-10.97*	1.05	519		1
72.02	0.98	4.31*	0.63	937		2
72.17	1.05	4.46*	1.25	707		3
67.13	0.78	-0.58	0.76	724		4
----RACE					----	
41.46	0.98	-26.25*	1.27	293		MINORITY
71.49	0.52	3.78*	0.18	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
56.81	0.57	-10.90*	0.66	912		LOW
72.84	0.78	5.13*	0.38	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
35.67	0.48	-32.04*	1.90	141		MINORITY LOW
61.78	0.64	-5.93*	0.70	768		NON-MINORITY LOW
47.02	0.81	-20.69*	2.14	152		MINORITY NON-LOW
75.57	0.86	7.86*	0.43	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #30

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
46.24	1.42			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
55.34	0.32	9.10*	0.23	1,337	MALE
38.34	0.37	-7.90*	0.28	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
34.39	0.40	-11.85*	0.75	519	1
52.87	0.60	6.63*	0.48	937	2
45.25	0.38	-0.99*	0.36	707	3
48.18	0.36	1.94*	0.40	724	4
----RACE					----
26.22	0.33	-20.02*	0.40	293	MINORITY
49.19	0.53	2.95*	0.12	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
35.02	0.31	-11.22*	0.36	912	LOW
51.51	0.54	5.27*	0.18	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
26.26	0.42	-19.98*	0.64	141	MINORITY LOW
37.24	0.43	-9.00*	0.47	768	NON-MINORITY LOW
26.18	0.31	-20.06*	0.95	152	MINORITY NON-LOW
54.21	0.43	7.97*	0.19	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #31

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
54.23	1.31			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
57.93	0.58	3.70*	0.46	1,337	MALE
50.96	0.56	-3.27*	0.41	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
41.78	1.19	-12.45*	0.37	519	1
58.69	1.01	4.46*	0.79	937	2
56.02	0.63	1.79*	0.75	707	3
57.33	0.55	3.10*	0.63	724	4
----RACE					----
27.96	0.64	-26.27*	0.62	293	MINORITY
57.92	0.50	3.69*	0.14	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
45.39	0.39	-8.84*	0.56	912	LOW
58.39	0.50	4.16*	0.28	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
29.53	0.56	-24.70*	0.91	141	MINORITY LOW
49.08	0.45	-5.15*	0.60	768	NON-MINORITY LOW
26.45	0.63	-27.78*	0.48	152	MINORITY NON-LOW
61.63	0.61	7.40*	0.33	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #32

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
71.66	1.68			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
74.43	0.61	2.77*	0.45	1,337	MALE
69.11	0.65	-2.55*	0.64	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
60.68	1.09	-10.98*	0.87	519	1
73.86	1.06	2.20*	0.70	937	2
73.30	0.90	1.64*	0.79	707	3
76.92	0.66	5.26*	0.54	724	4
----RACE					----
48.93	0.90	-22.73*	0.87	293	MINORITY
74.93	0.80	3.27*	0.17	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
65.72	0.62	-5.94*	0.88	912	LOW
74.45	0.62	2.79*	0.36	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
46.32	0.58	-25.34*	1.48	141	MINORITY LOW
70.34	0.70	-1.32	0.87	768	NON-MINORITY LOW
51.44	1.25	-20.22*	0.87	152	MINORITY NON-LOW
76.85	0.74	5.19*	0.40	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :33

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
72.85	1.10			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
76.25	0.16	3.40*	0.13	1,337		MALE
69.82	0.27	-3.03*	0.18	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
62.69	0.38	-10.16*	0.29	519		1
77.87	0.34	5.02*	0.25	937		2
75.29	0.49	2.44*	0.27	707		3
72.39	0.24	-0.46*	0.21	724		4
----RACE					----	
56.31	0.46	-16.54*	0.34	293		MINORITY
75.18	0.26	2.33*	0.05	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
63.01	0.12	-9.84*	0.22	912		LOW
77.48	0.32	4.63*	0.12	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
48.47	0.26	-24.38*	0.72	141		MINORITY LOW
66.29	0.26	-6.56*	0.25	768		NON-MINORITY LOW
63.84	0.27	-9.01*	0.62	152		MINORITY NON-LOW
78.91	0.28	6.06*	0.12	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #34

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
87.44	1.82			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
91.51	0.23	4.07*	0.25	1,337	MALE
83.86	0.72	-3.58*	0.45	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
81.79	0.88	-5.65*	0.38	519	1
89.33	0.65	1.89*	0.41	937	2
88.44	0.71	1.00*	0.47	707	3
88.88	0.39	1.44*	0.25	724	4
----RACE ----					
72.95	0.86	-14.49*	0.63	293	MINORITY
89.55	0.58	2.11*	0.10	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
82.39	0.57	-5.05*	0.38	912	LOW
89.82	0.53	2.38*	0.16	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
68.38	0.63	-19.06*	0.39	141	MINORITY LOW
85.67	0.47	-1.77*	0.48	768	NON-MINORITY LOW
77.35	0.75	-10.09*	0.26	152	MINORITY NON-LOW
91.18	0.54	3.74*	0.16	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #35

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
93.51	1.56			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
92.23	0.42	-1.28*	0.35	1,337		MALE
94.70	0.43	1.19*	0.25	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
89.82	0.63	-3.69*	0.60	519		1
94.76	0.57	1.25*	0.35	937		2
94.90	0.52	1.39*	0.34	707		3
93.73	0.79	0.22	0.45	724		4
----RACE					----	
87.08	0.79	-6.43*	0.68	293		MINORITY
94.43	0.42	0.92*	0.10	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
92.00	0.33	-1.51*	0.37	912		LOW
94.22	0.66	0.71*	0.20	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
87.36	0.54	-6.15*	0.35	141		MINORITY LOW
93.19	0.38	-0.32	0.32	768		NON-MINORITY LOW
86.82	0.68	-6.69*	1.00	152		MINORITY NON-LOW
94.94	0.64	1.43*	0.20	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #36

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
72.73	1.84			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
72.81	0.53	0.08	0.54	1,337	MALE
72.72	0.66	-0.01	0.47	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
68.71	1.07	-4.02*	0.70	519	1
75.21	0.95	2.48*	0.78	937	2
72.33	1.34	-0.40	0.84	707	3
73.10	0.76	0.37	0.50	724	4
----RACE ----					
64.43	0.59	-8.30*	0.76	293	MINORITY
73.89	0.68	1.16*	0.22	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
66.72	0.86	-6.01*	0.61	912	LOW
75.55	0.80	2.82*	0.39	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
58.78	0.95	-13.95*	1.75	141	MINORITY LOW
68.34	0.81	-4.39*	0.70	768	NON-MINORITY LOW
69.85	0.86	-2.88	1.70	152	MINORITY NON-LOW
76.22	0.88	3.49*	0.37	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 137

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
94.18	0.89			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
92.95	0.31	-1.23*	0.18	1,337		MALE
95.34	0.30	1.16*	0.18	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
92.28	0.35	-1.90*	0.28	519		1
94.12	0.44	-0.06	0.24	937		2
96.32	0.34	2.14*	0.20	707		3
93.99	0.33	-0.19	0.34	724		4
----RACE					----	
87.87	0.46	-6.31*	0.30	293		MINORITY
95.07	0.25	0.89*	0.05	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
93.49	0.20	-0.69*	0.21	912		LOW
94.51	0.34	0.33*	0.14	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
89.50	0.32	-4.68*	0.20	141		MINORITY LOW
94.36	0.17	0.18	0.18	768		NON-MINORITY LOW
86.30	0.23	-7.88*	0.59	152		MINORITY NON-LOW
95.36	0.39	1.18*	0.14	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #38

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
92.16	1.49			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
92.51	0.27	0.35	0.20	1,337	MALE
91.88	0.52	-0.28	0.33	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
89.99	0.72	-2.17*	0.46	519	1
92.97	0.61	0.81	0.48	937	2
92.37	0.67	0.21	0.42	707	3
92.76	0.40	0.60*	0.30	724	4
----RACE ----					
86.47	0.37	-5.69*	0.72	293	MINORITY
92.96	0.44	0.80*	0.06	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
89.79	0.39	-2.37*	0.42	912	LOW
93.27	0.46	1.11*	0.12	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
84.63	0.53	-7.53*	1.22	141	MINORITY LOW
91.09	0.41	-1.07*	0.38	768	NON-MINORITY LOW
88.23	0.50	-3.93*	0.88	152	MINORITY NON-LOW
93.75	0.53	1.59*	0.14	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :39

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
85.75	1.56			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
87.32	0.41	1.57*	0.35	1,337		MALE
84.40	0.74	-1.35*	0.57	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
79.56	0.90	-6.19*	0.59	519		1
89.58	0.79	3.83*	0.46	937		2
87.76	0.80	2.01*	0.43	707		3
83.81	0.42	-1.94*	0.74	724		4
----RACE					----	
69.69	0.98	-16.06*	1.08	293		MINORITY
87.94	0.41	2.19*	0.13	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
79.79	0.50	-5.96*	0.42	912		LOW
88.55	0.60	2.80*	0.22	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
66.48	0.92	-19.27*	0.91	141		MINORITY LOW
82.72	0.45	-3.03*	0.54	768		NON-MINORITY LOW
72.77	1.14	-12.98*	1.11	152		MINORITY NON-LOW
90.13	0.37	4.38*	0.25	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 140

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
45.00	1.64			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
51.52	0.18	6.52*	0.12	1,337	MALE
39.26	0.37	-5.74*	0.15	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
36.13	0.46	-8.87*	0.30	519	1
50.62	0.49	5.62*	0.22	937	2
45.22	0.47	0.22	0.24	707	3
44.54	0.37	-0.46*	0.17	724	4
----RACE					----
20.62	0.26	-24.38*	0.39	293	MINORITY
48.48	0.26	3.48*	0.06	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
34.82	0.14	-10.18*	0.16	912	LOW
49.78	0.52	4.78*	0.11	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
19.17	0.20	-25.83*	0.43	141	MINORITY LOW
38.39	0.15	-6.61*	0.18	768	NON-MINORITY LOW
22.01	0.23	-22.99*	0.54	152	MINORITY NON-LOW
52.71	0.26	7.71*	0.13	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 141

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
81.20	1.26			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
83.44	0.32	2.24*	0.29	1,337	MALE
79.24	0.58	-1.96*	0.43	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
71.69	0.74	-9.51*	0.48	519	1
81.86	0.74	0.66	0.50	937	2
83.66	0.54	2.46*	0.33	707	3
86.65	0.34	5.45*	0.27	724	4
----RACE ----					
56.30	0.92	-24.90*	0.62	293	MINORITY
84.81	0.36	3.61*	0.10	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
75.39	0.58	-5.81*	0.33	912	LOW
83.94	0.32	2.74*	0.19	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
50.73	0.43	-30.47*	0.84	141	MINORITY LOW
81.28	0.42	0.08	0.39	768	NON-MINORITY LOW
61.65	0.40	-19.55*	0.91	152	MINORITY NON-LOW
86.30	0.26	5.10*	0.22	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #42

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
83.71	1.42			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
84.93	0.50	1.22*	0.33	1,337		MALE
82.66	0.46	-1.05*	0.43	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
79.25	0.60	-4.46*	0.34	519		1
88.39	0.89	4.68*	0.49	937		2
82.21	1.11	-1.50*	0.55	707		3
82.28	0.64	-1.43*	0.40	724		4
----RACE					----	
67.98	0.79	-15.73*	0.82	293		MINORITY
85.86	0.62	2.15*	0.14	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
77.29	0.78	-6.42*	0.63	912		LOW
86.74	0.64	3.03*	0.18	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
64.55	0.73	-19.16*	0.68	141		MINORITY LOW
80.07	0.43	-3.64*	0.45	768		NON-MINORITY LOW
71.28	0.85	-12.43*	0.81	152		MINORITY NON-LOW
88.29	0.66	4.58*	0.20	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :43

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
85.76	1.39			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
86,34	0,52	0,58	0,52	1,337	MALE
85,20	0,66	-0,56	0,52	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
82,61	1,22	-3,15*	0,59	519	1
87,27	0,72	1,51*	0,68	937	2
85,66	0,64	-0,10	0,69	707	3
86,50	0,72	0,74	0,62	724	4
----RACE					----
73,40	1,18	-12,36*	1,26	293	MINORITY
87,56	0,46	1,80*	0,18	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
82,10	0,74	-3,66*	0,49	912	LOW
87,48	0,50	1,72*	0,31	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
72,23	1,22	-13,53*	0,85	141	MINORITY LOW
84,43	0,70	-1,33*	0,64	768	NON-MINORITY LOW
74,52	1,06	-11,24*	0,83	152	MINORITY NON-LOW
88,87	0,50	3,11*	0,35	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 144

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
81.00	1.00			2,887	ALL STUDENTS
----SEX OF THE STUDENT				----	
84.32	0.21	3.32*	0.14	1,337	MALE
78.07	0.33	-2.93*	0.25	1,546	FEMALE
----SIZE OF THE COMMUNITY				----	
72.36	0.32	-8.64*	0.47	519	1
85.38	0.42	4.38*	0.25	937	2
80.26	0.58	-0.74*	0.24	707	3
83.13	0.38	2.13*	0.21	724	4
----RACE				----	
57.01	0.41	-23.99*	0.59	293	MINORITY
84.42	0.36	3.42*	0.05	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
73.78	0.45	-7.22*	0.24	912	LOW
84.40	0.36	3.40*	0.09	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
53.10	0.23	-27.90*	0.74	141	MINORITY LOW
78.75	0.23	-2.25*	0.24	768	NON-MINORITY LOW
60.78	0.65	-20.22*	0.38	152	MINORITY NON-LOW
86.80	0.29	5.80*	0.12	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :45

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
88.99	1.84			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.50	0.34	2.51*	0.24	1,337		MALE
86.80	0.58	-2.19*	0.37	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
83.16	1.15	-5.83*	0.45	519		1
90.66	0.67	1.67*	0.42	937		2
89.38	0.65	0.39	0.32	707		3
91.47	0.57	2.48*	0.31	724		4
----RACE					----	
62.98	0.83	-26.01*	0.69	293		MINORITY
92.66	0.62	3.67*	0.09	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
82.78	0.56	-6.21*	0.43	912		LOW
91.90	0.30	2.91*	0.15	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
59.32	0.51	-29.67*	1.28	141		MINORITY LOW
88.23	0.36	-0.76	0.39	768		NON-MINORITY LOW
66.50	0.53	-22.49*	1.13	152		MINORITY NON-LOW
94.52	0.35	5.53*	0.18	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 146

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
70.05	1.73			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
74.55	0.49	4.50*	0.46	1,337	MALE
66.08	0.59	-3.97*	0.59	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
61.10	0.89	-8.95*	0.72	519	1
75.17	0.98	5.12*	0.64	937	2
73.07	0.46	3.02*	0.92	707	3
67.77	0.83	-2.28*	0.71	724	4
----RACE					----
61.30	1.10	-8.75*	0.91	293	MINORITY
71.30	0.55	1.25*	0.16	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
63.89	0.53	-6.16*	0.58	912	LOW
72.95	0.88	2.90*	0.25	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
63.05	0.83	-7.00*	0.83	141	MINORITY LOW
64.47	0.51	-5.58*	0.70	768	NON-MINORITY LOW
59.62	0.88	-10.43*	1.88	152	MINORITY NON-LOW
74.18	0.93	4.13*	0.29	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #47

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
74.52	0.26			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
77.35	0.08	2.83*	0.06	1,337	MALE
72.01	0.10	-2.51*	0.09	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
63.88	0.08	-10.64*	0.13	519	1
80.88	0.12	6.36*	0.08	937	2
74.91	0.10	0.39*	0.08	707	3
74.43	0.12	-0.09	0.08	724	4
----RACE ----					
59.81	0.09	-14.71*	0.09	293	MINORITY
76.66	0.09	2.14*	0.02	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
64.84	0.07	-9.68*	0.06	912	LOW
79.07	0.10	4.55*	0.04	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
58.56	0.07	-15.96*	0.21	141	MINORITY LOW
66.45	0.07	-8.07*	0.09	768	NON-MINORITY LOW
61.01	0.13	-13.51*	0.22	152	MINORITY NON-LOW
80.94	0.08	6.42*	0.05	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #48

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
56.99	1.21			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
60.35	0.39	3.36*	0.29	1,337	MALE
54.04	0.34	-2.95*	0.32	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
46.84	0.39	-10.15*	0.50	519	1
66.21	0.52	9.22*	0.42	937	2
56.91	0.42	-0.08	0.46	707	3
52.63	0.54	-4.36*	0.78	724	4
----RACE					----
36.98	0.48	-20.01*	0.77	293	MINORITY
59.78	0.42	2.79*	0.16	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
44.93	0.33	-12.06*	0.41	912	LOW
62.66	0.38	5.67*	0.28	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
35.23	0.33	-21.76*	1.09	141	MINORITY LOW
47.20	0.37	-9.79*	0.45	768	NON-MINORITY LOW
38.66	0.87	-18.33*	0.53	152	MINORITY NON-LOW
65.06	0.41	8.07*	0.32	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #49

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
90.76	0.98			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
90.35	0.29	-0.41	0.34	1,337	MALE
91.10	0.64	0.34	0.62	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
85.50	0.92	-5.26*	0.30	519	1
92.58	0.41	1.82*	0.45	937	2
91.59	0.76	0.83*	0.36	707	3
92.13	0.29	1.37*	0.62	724	4
----RACE ----					
85.24	1.07	-5.52*	0.87	293	MINORITY
91.59	0.39	0.83*	0.12	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
88.13	0.72	-2.63*	0.41	912	LOW
92.00	0.39	1.24*	0.27	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
83.09	0.62	-7.67*	0.75	141	MINORITY LOW
89.21	0.42	-1.55*	0.33	768	NON-MINORITY LOW
87.30	0.50	-3.46*	0.93	152	MINORITY NON-LOW
92.60	0.39	1.84*	0.28	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 150

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
29.43	1.92			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
32.39	0.66	2.96*	0.54	1,337		MALE
26.86	0.62	-2.57*	0.53	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
24.78	1.24	-4.65*	0.59	519		1
33.71	1.12	4.28*	0.78	937		2
28.01	0.85	-1.42	0.92	707		3
28.68	0.73	-0.75	0.71	724		4
----RACE					----	
15.84	1.11	-13.59*	0.86	293		MINORITY
31.41	0.80	1.98*	0.17	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
21.41	0.74	-8.02*	0.46	912		LOW
33.20	0.81	3.77*	0.35	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
16.24	1.29	-13.19*	0.84	141		MINORITY LOW
22.73	0.87	-6.70*	0.48	768		NON-MINORITY LOW
15.47	0.83	-13.96*	0.76	152		MINORITY NON-LOW
35.06	0.84	5.63*	0.41	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :51

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
94.23	1.09			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
94.55	0.15	0.32	0.17	1,337		MALE
93.94	0.40	-0.29	0.19	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
89.81	0.49	-4.42*	0.14	519		1
95.43	0.42	1.20*	0.24	937		2
95.61	0.41	1.38*	0.15	707		3
95.21	0.35	0.98*	0.24	724		4
----RACE					----	
85.93	0.43	-8.30*	0.25	293		MINORITY
95.44	0.38	1.21*	0.06	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
91.86	0.24	-2.37*	0.14	912		LOW
95.35	0.18	1.12*	0.07	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
80.85	0.34	-13.38*	0.31	141		MINORITY LOW
94.51	0.18	0.28	0.16	768		NON-MINORITY LOW
90.81	0.20	-3.42*	0.15	152		MINORITY NON-LOW
95.83	0.26	1.60*	0.09	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :52

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
76,23	2,00			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
80,49	0,31	4,26*	0,26	1,337	MALE
72,55	0,82	-3,68*	0,51	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
69,81	1,19	-6,42*	0,53	519	1
79,19	0,88	2,96*	0,53	937	2
75,57	0,92	-0,66	0,34	707	3
78,37	0,61	2,14*	0,49	724	4
----RACE ----					
59,33	0,75	-16,90*	0,74	293	MINORITY
78,60	0,63	2,37*	0,13	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
72,06	0,39	-4,17*	0,42	912	LOW
78,19	0,77	1,96*	0,21	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
63,21	0,92	-13,02*	0,98	141	MINORITY LOW
74,13	0,38	-2,10*	0,46	768	NON-MINORITY LOW
55,59	0,57	-20,64*	0,43	152	MINORITY NON-LOW
80,48	0,60	4,25*	0,23	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #53

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
70.82	1.83			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
76.39	0.62	5.57*	0.50	1,337		MALE
65.86	0.55	-4.96*	0.45	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
61.09	0.86	-9.73*	0.93	519		1
76.01	0.90	5.19*	0.74	937		2
71.33	1.23	0.51	0.65	707		3
71.54	1.19	0.72	0.43	724		4
----RACE					----	
39.33	0.59	-31.49*	1.14	293		MINORITY
75.28	0.68	4.46*	0.21	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
62.05	0.46	-8.77*	0.51	912		LOW
74.94	0.55	4.12*	0.27	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
34.51	0.73	-36.31*	1.53	141		MINORITY LOW
68.31	0.51	-2.51*	0.48	768		NON-MINORITY LOW
43.96	1.02	-26.86*	0.60	152		MINORITY NON-LOW
78.21	0.50	7.39*	0.28	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #54

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
84.97	1.41			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
89.47	0.46	4.50*	0.41	1,337		MALE
80.94	0.66	-4.03*	0.49	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
76.70	0.99	-8.27*	0.71	519		1
87.55	0.95	2.58*	0.66	937		2
84.84	0.68	-0.13	0.73	707		3
88.86	0.51	3.89*	0.78	724		4
----RACE					----	
67.44	1.08	-17.53*	0.84	293		MINORITY
87.54	0.54	2.57*	0.18	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
80.55	0.34	-4.42*	0.50	912		LOW
87.05	0.53	2.08*	0.32	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
65.87	0.93	-19.10*	0.84	141		MINORITY LOW
84.18	0.67	-0.79	0.60	768		NON-MINORITY LOW
68.96	0.99	-16.01*	1.64	152		MINORITY NON-LOW
88.96	0.60	3.99*	0.36	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #55

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
89.48	1.95			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
82.86	0.36	-6.62*	0.21	1,337		MALE
95.30	0.71	5.82*	0.43	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
83.37	0.82	-6.11*	0.26	519		1
92.30	0.75	2.82*	0.25	937		2
91.73	0.62	2.25*	0.24	707		3
88.76	0.33	-0.72	0.42	724		4
----RACE					----	
78.77	0.84	-10.71*	0.55	293		MINORITY
91.05	0.40	1.57*	0.09	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
87.76	0.54	-1.72*	0.30	912		LOW
90.29	0.68	0.81*	0.17	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
77.09	0.67	-12.39*	0.85	141		MINORITY LOW
90.31	0.28	0.83*	0.38	768		NON-MINORITY LOW
80.38	0.45	-9.10*	0.28	152		MINORITY NON-LOW
91.36	0.52	1.88*	0.19	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #56

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
40.20	1.24			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
48.82	0.45	8.62*	0.46	1,337		MALE
32.71	0.58	-7.49*	0.44	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
29.80	0.81	-10.40*	0.73	519		1
47.02	0.69	6.82*	0.78	937		2
38.57	0.72	-1.63*	0.52	707		3
41.16	0.58	0.96	0.88	724		4
----RACE					----	
25.17	0.88	-15.03*	0.71	293		MINORITY
42.31	0.54	2.11*	0.21	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
28.49	0.34	-11.71*	0.44	912		LOW
45.71	0.44	5.51*	0.34	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
21.74	1.08	-18.46*	1.09	141		MINORITY LOW
30.01	0.51	-10.19*	0.41	768		NON-MINORITY LOW
28.46	0.67	-11.74*	1.58	152		MINORITY NON-LOW
47.48	0.55	7.28*	0.40	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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                                     OHIO DEPARTMENT OF EDUCATION
                                   DIVISION OF PLANNING AND EVALUATION

                                OHIO STATEWIDE ASSESSMENT - SPRING 1978

                                         "12TH GRADE MATH"
                  ITEM #57

               SE OF       GROUP      SE OF      SAMPLE
P-VALUE       P-VALUE      EFFECT     EFFECT      SIZE                REPORTING GROUP

  73.46         1.42                              2,887               ALL STUDENTS

----SEX OF THE STUDENT                                      ----
  75.33         0.61        1.87*      0.45       1,337               MALE
  71.78         0.64       -1.68*      0.52       1,546               FEMALE

----SIZE OF THE COMMUNITY                                   ----
  62.49         1.03      -10.97*      1.09         519               1
  78.94         0.87        5.48*      0.74         937               2
  74.58         0.69        1.12       0.59         707               3
  74.30         0.65        0.84       0.65         724               4

----RACE                                                    ----
  45.98         0.58      -27.48*      0.96         293               MINORITY
  77.38         0.60        3.92*      0.21       2,584               NON-MINORITY

----SOCIO-ECONOMIC STATUS                                   ----
  61.48         0.40      -11.98*      0.55         912               LOW
  79.09         0.56        5.63*      0.32       1,975               NON-LOW

----RACE BY SOCIO-ECONOMIC STATUS                           ----
  40.55         0.73      -32.91*      1.87         141               MINORITY LOW
  66.22         0.53       -7.24*      0.87         768               NON-MINORITY LOW
  51.19         1.49      -22.27*      1.00         152               MINORITY NON-LOW
  82.06         0.65        8.60*      0.35       1,816               NON-MINORITY NON-LOW

 *  INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL
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OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM #58

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
81.09	0.98			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
81.84	0.14	0.75*	0.12	1,337	MALE
80.55	0.32	-0.54*	0.21	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
75.68	0.56	-5.41*	0.24	519	1
82.66	0.32	1.57*	0.13	937	2
83.70	0.38	2.61*	0.23	707	3
81.24	0.25	0.15	0.16	724	4
----RACE					----
73.50	0.41	-7.59*	0.22	293	MINORITY
82.34	0.27	1.25*	0.04	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
76.47	0.20	-4.62*	0.12	912	LOW
83.26	0.36	2.17*	0.07	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
69.95	0.37	-11.14*	0.37	141	MINORITY LOW
78.44	0.18	-2.65*	0.15	768	NON-MINORITY LOW
76.91	0.29	-4.18*	0.20	152	MINORITY NON-LOW
83.98	0.22	2.89*	0.08	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 159

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
91.95	1.59			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.06	0.29	-0.89*	0.27	1,337		MALE
92.84	0.37	0.89*	0.27	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
88.90	0.64	-3.05*	0.47	519		1
91.96	0.50	0.01	0.40	937		2
94.23	0.38	2.28*	0.29	707		3
92.58	0.66	0.63*	0.19	724		4
----RACE					----	
80.54	0.55	-11.41*	0.60	293		MINORITY
93.64	0.48	1.69*	0.07	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
88.50	0.33	-3.45*	0.28	912		LOW
93.57	0.58	1.62*	0.15	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
75.56	0.78	-16.39*	0.51	141		MINORITY LOW
91.39	0.33	-0.56	0.33	768		NON-MINORITY LOW
85.33	0.82	-6.62*	0.23	152		MINORITY NON-LOW
94.58	0.46	2.63*	0.17	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 160

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
81.25	1.89			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
86.63	0.51	5.38*	0.35	1,337		MALE
76.49	0.71	-4.76*	0.48	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
69.82	1.22	-11.43*	0.67	519		1
85.26	0.99	4.01*	0.47	937		2
82.82	0.85	1.57*	0.37	707		3
84.28	0.76	3.03*	0.56	724		4
----RACE					----	
53.44	1.42	-27.81*	0.67	293		MINORITY
85.25	0.78	4.00*	0.14	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
72.20	0.50	-9.05*	0.66	912		LOW
85.50	0.59	4.25*	0.20	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
44.42	0.49	-36.83*	1.36	141		MINORITY LOW
78.59	1.18	-2.66*	0.90	768		NON-MINORITY LOW
62.10	0.46	-19.15*	2.05	152		MINORITY NON-LOW
88.04	0.75	6.79*	0.24	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 161

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
89.06	1.84			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
88.35	0.73	-0.71	0.39	1,337		MALE
89.73	0.66	0.67	0.42	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
86.40	0.86	-2.66*	0.71	519		1
89.66	0.97	0.60	0.63	937		2
90.33	0.85	1.27*	0.61	707		3
89.42	0.65	0.36	0.41	724		4
----RACE					----	
79.88	0.84	-9.18*	1.20	293		MINORITY
90.43	0.70	1.37*	0.14	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
85.42	0.47	-3.64*	0.67	912		LOW
90.78	0.63	1.72*	0.25	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
78.56	0.79	-10.50*	0.80	141		MINORITY LOW
86.90	0.70	-2.16*	0.60	768		NON-MINORITY LOW
81.15	0.43	-7.91*	0.51	152		MINORITY NON-LOW
91.92	0.55	2.86*	0.26	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :62

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
65.54	0.65			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
70.06	0.27	4.52*	0.21	1,337	MALE
61.59	0.24	-3.95*	0.23	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
55.76	0.46	-9.78*	0.29	519	1
70.05	0.40	4.51*	0.29	937	2
67.58	0.50	2.04*	0.20	707	3
65.86	0.32	0.32	0.38	724	4
----RACE					----
44.78	0.45	-20.76*	0.41	293	MINORITY
68.46	0.31	2.92*	0.08	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
57.09	0.46	-8.45*	0.27	912	LOW
69.51	0.25	3.97*	0.16	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
44.90	0.29	-20.64*	1.02	141	MINORITY LOW
59.85	0.54	-5.69*	0.29	768	NON-MINORITY LOW
44.66	0.49	-20.88*	0.88	152	MINORITY NON-LOW
72.08	0.29	6.54*	0.17	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM :63

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
91.00	2.03			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
90.76	0.29	-0.24	0.27	1,337	MALE
91.43	0.39	0.43	0.32	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
87.65	0.38	-3.35*	0.55	519	1
90.94	0.44	-0.06	0.51	937	2
94.59	0.45	3.59*	0.50	707	3
90.76	0.51	-0.24	0.23	724	4
----RACE					----
86.87	0.43	-4.13*	0.73	293	MINORITY
91.77	0.36	0.77*	0.08	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
88.73	0.60	-2.27*	0.41	912	LOW
92.07	0.40	1.07*	0.18	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
85.67	0.43	-5.33*	0.85	141	MINORITY LOW
89.80	0.56	-1.20*	0.43	768	NON-MINORITY LOW
88.03	0.37	-2.97*	0.49	152	MINORITY NON-LOW
92.60	0.64	1.60*	0.16	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 164

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
67.98	1.98			2,887	ALL STUDENTS
----SEX OF THE STUDENT ----					
67.48	0.59	-0.50	0.52	1,337	MALE
68.39	0.78	0.41	0.69	1,546	FEMALE
----SIZE OF THE COMMUNITY ----					
54.99	0.83	-12.99*	0.57	519	1
70.18	0.96	2.20*	0.57	937	2
72.14	0.67	4.16*	0.81	707	3
72.70	0.90	4.72*	0.45	724	4
----RACE ----					
46.59	0.97	-21.39*	0.63	293	MINORITY
71.08	0.53	3.10*	0.16	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
62.37	0.60	-5.61*	0.58	912	LOW
70.62	0.70	2.64*	0.23	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
42.86	0.61	-25.12*	1.61	141	MINORITY LOW
66.99	0.60	-0.99	0.87	768	NON-MINORITY LOW
50.17	0.32	-17.81*	1.63	152	MINORITY NON-LOW
72.80	0.63	4.82*	0.27	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 165

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
73.82	2.07			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
75.29	0.15	1.47*	0.11	1,337		MALE
72.51	0.35	-1.31*	0.14	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
63.04	0.38	-10.78*	0.15	519		1
75.53	0.39	1.71*	0.19	937		2
77.25	0.46	3.43*	0.15	707		3
77.93	0.21	4.11*	0.13	724		4
----RACE					----	
51.84	0.19	-21.98*	0.27	293		MINORITY
76.97	0.56	3.15*	0.04	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
66.58	0.14	-7.24*	0.15	912		LOW
77.23	0.57	3.41*	0.08	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
52.85	0.23	-20.97*	0.34	141		MINORITY LOW
69.70	0.14	-4.12*	0.18	768		NON-MINORITY LOW
50.87	0.16	-22.95*	0.27	152		MINORITY NON-LOW
80.02	0.65	6.20*	0.07	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 166

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
91.24	0.49			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
90.28	0.28	-0.96*	0.23	1,337		MALE
92.06	0.28	0.82*	0.26	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
88.93	0.48	-2.31*	0.46	519		1
92.24	0.41	1.00*	0.35	937		2
91.02	0.44	-0.22	0.28	707		3
92.09	0.19	0.85	0.47	724		4
----RACE					----	
84.84	0.49	-6.40*	0.46	293		MINORITY
92.17	0.25	0.93*	0.08	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
89.59	0.24	-1.65*	0.24	912		LOW
92.02	0.25	0.78*	0.16	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
84.31	0.89	-6.93*	0.39	141		MINORITY LOW
90.91	0.33	-0.33	0.31	768		NON-MINORITY LOW
85.35	0.72	-5.89*	0.30	152		MINORITY NON-LOW
92.70	0.19	1.46*	0.19	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 167

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
94.84	1.13			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
93.98	0.52	-0.86*	0.17	1,337	MALE
95.58	0.39	0.74*	0.36	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
91.57	0.54	-3.27*	0.27	519	1
96.40	0.68	1.56*	0.34	937	2
94.81	0.38	-0.03	0.48	707	3
95.54	0.38	0.70*	0.22	724	4
----RACE					----
88.78	0.77	-6.06*	0.55	293	MINORITY
95.75	0.35	0.91*	0.10	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
93.12	0.47	-1.72*	0.44	912	LOW
95.65	0.42	0.81*	0.12	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
87.74	0.67	-7.10*	0.97	141	MINORITY LOW
94.50	0.58	-0.34	0.62	768	NON-MINORITY LOW
89.78	0.48	-5.06*	0.52	152	MINORITY NON-LOW
96.27	0.41	1.43*	0.14	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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"12TH GRADE MATH"

ITEM 168

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
89.12	1.93			2,887	ALL STUDENTS
----SEX OF THE STUDENT					----
90.03	0.51	0.91*	0.40	1,337	MALE
88.28	0.73	-0.84	0.46	1,546	FEMALE
----SIZE OF THE COMMUNITY					----
85.55	1.15	-3.57*	0.59	519	1
91.60	1.00	2.48*	0.42	937	2
87.60	0.78	-1.52*	0.48	707	3
90.14	1.01	1.02*	0.31	724	4
----RACE					----
84.97	0.98	-4.15*	0.75	293	MINORITY
89.73	0.64	0.61*	0.15	2,584	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
86.64	0.47	-2.48*	0.41	912	LOW
90.28	0.68	1.16*	0.20	1,975	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
83.57	1.36	-5.55*	1.62	141	MINORITY LOW
87.45	0.41	-1.67*	0.43	768	NON-MINORITY LOW
86.32	0.62	-2.80*	0.85	152	MINORITY NON-LOW
90.69	0.83	1.57*	0.19	1,816	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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"12TH GRADE MATH"

ITEM 169

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
82.66	0.64			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
82.41	0.19	-0.25	0.16	1,337		MALE
83.00	0.29	0.34	0.25	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
72.51	0.30	-10.15*	0.36	519		1
85.73	0.31	3.07*	0.31	937		2
84.37	0.34	1.71*	0.24	707		3
85.79	0.27	3.13*	0.35	724		4
----RACE					----	
62.42	0.67	-20.24*	0.50	293		MINORITY
85.57	0.25	2.91*	0.06	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
73.09	0.18	-9.57*	0.29	912		LOW
87.15	0.24	4.49*	0.10	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
51.70	0.30	-30.96*	0.69	141		MINORITY LOW
78.24	0.21	-4.42*	0.20	768		NON-MINORITY LOW
72.72	0.25	-9.94*	0.50	152		MINORITY NON-LOW
88.65	0.21	5.99*	0.12	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

ITEM 170

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
86.93	0.98			2,887		ALL STUDENTS
----SEX OF THE STUDENT					----	
85.91	0.31	-1.02*	0.37	1,337		MALE
87.86	0.36	0.93*	0.31	1,546		FEMALE
----SIZE OF THE COMMUNITY					----	
80.66	0.51	-6.27*	0.22	519		1
87.69	0.55	0.76	0.56	937		2
89.03	0.50	2.10*	0.24	707		3
89.56	0.36	2.63*	0.27	724		4
----RACE					----	
71.54	0.42	-15.39*	0.67	293		MINORITY
89.08	0.40	2.15*	0.13	2,584		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
83.07	0.39	-3.86*	0.35	912		LOW
88.74	0.40	1.81*	0.27	1,975		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
70.48	0.62	-16.45*	1.14	141		MINORITY LOW
86.04	0.37	-0.89*	0.43	768		NON-MINORITY LOW
72.55	0.52	-14.38*	0.61	152		MINORITY NON-LOW
90.36	0.49	3.43*	0.32	1,816		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM # 1

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
87,57	1,21			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
88,29	0,42	0,72*	0,26	1,450	MALE
86,88	0,58	-0,69	0,43	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
83,67	0,53	-3,90*	0,61	557	1
90,39	0,45	2,82*	0,36	919	2
87,71	0,45	0,14	0,51	708	3
86,65	0,37	-0,92*	0,25	731	4
----RACE					----
78,40	0,70	-9,17*	0,77	337	MINORITY
88,85	0,36	1,28*	0,10	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
84,13	0,38	-3,44*	0,41	993	LOW
89,36	0,24	1,79*	0,22	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
74,38	0,73	-13,19*	0,58	168	MINORITY LOW
86,28	0,29	-1,29*	0,29	816	NON-MINORITY LOW
82,69	0,56	-4,88*	1,02	169	MINORITY NON-LOW
90,04	0,25	2,47*	0,26	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM : 2

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
81.12	1.49			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
80.35	0.54	-0.77*	0.31	1,450		MALE
81.98	0.52	0.86*	0.40	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
73.64	0.65	-7.48*	0.43	557		1
84.42	0.71	3.30*	0.58	919		2
81.83	0.49	0.71	0.52	708		3
82.11	0.71	0.99*	0.35	731		4
----RACE					----	
66.77	0.82	-14.35*	1.19	337		MINORITY
83.10	0.56	1.98*	0.17	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
75.50	0.43	-5.62*	0.39	993		LOW
84.04	0.64	2.92*	0.25	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
62.52	0.67	-18.60*	1.35	168		MINORITY LOW
78.51	0.45	-2.61*	0.27	816		NON-MINORITY LOW
71.30	0.59	-9.82*	1.36	169		MINORITY NON-LOW
85.23	0.61	4.11*	0.35	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM : 3

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
61.63	1.32			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
66.38	0.65	4.75*	0.39	1,450		MALE
56.93	0.57	-4.70*	0.51	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
52.89	0.61	-8.74*	1.43	557		1
65.85	0.94	4.22*	0.62	919		2
63.90	0.75	2.27*	0.50	708		3
60.92	0.80	-0.71*	0.31	731		4
----RACE					----	
43.05	1.20	-18.58*	0.72	337		MINORITY
64.23	0.63	2.60*	0.23	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
55.16	0.48	-6.47*	0.48	993		LOW
65.00	0.69	3.37*	0.28	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
40.62	0.43	-21.01*	1.94	168		MINORITY LOW
58.40	0.57	-3.23*	0.36	816		NON-MINORITY LOW
45.64	1.30	-15.99*	1.05	169		MINORITY NON-LOW
66.94	0.65	5.31*	0.40	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM : 4

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
65,98	1,23			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
68,25	0,64	2,27*	0,40	1,450		MALE
63,85	0,67	-2,13*	0,59	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
57,51	1,50	-8,47*	1,53	557		1
71,47	0,96	5,49*	0,75	919		2
68,77	0,76	2,79*	0,78	708		3
62,63	0,77	-3,35*	0,58	731		4
----RACE					----	
42,00	1,31	-23,98*	0,84	337		MINORITY
69,30	0,60	3,32*	0,23	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
57,62	0,58	-8,36*	0,61	993		LOW
70,33	0,78	4,35*	0,29	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
34,17	1,45	-31,81*	1,65	168		MINORITY LOW
62,81	0,72	-3,17*	0,47	816		NON-MINORITY LOW
50,35	1,61	-15,63*	1,24	169		MINORITY NON-LOW
72,31	0,69	6,33*	0,46	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM : 5

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
40.39	1.97			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
41.33	0.82	0.94*	0.42	1,450		MALE
39.50	0.92	-0.89	0.91	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
32.21	1.85	-8.18*	1.01	557		1
46.10	1.03	5.71*	0.53	919		2
40.49	0.85	0.10	0.90	708		3
38.93	0.79	-1.46*	0.32	731		4
----RACE					----	
29.20	1.98	-11.19*	0.76	337		MINORITY
41.81	0.83	1.42*	0.15	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
35.63	0.70	-4.76*	0.63	993		LOW
42.86	0.90	2.47*	0.28	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
26.10	1.14	-14.29*	0.87	168		MINORITY LOW
37.43	0.64	-2.96*	0.41	816		NON-MINORITY LOW
32.51	1.60	-7.88*	1.47	169		MINORITY NON-LOW
43.84	0.93	3.45*	0.26	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM : 6

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
20.47	1.17			2,915	ALL STUDENTS
----SEX OF THE STUDENT ----					
19.62	0.44	-0.85*	0.13	1,450	MALE
21.28	0.28	0.81*	0.22	1,457	FEMALE
----SIZE OF THE COMMUNITY ----					
21.53	0.31	1.06*	0.32	557	1
22.16	0.39	1.69*	0.23	919	2
19.66	0.32	-0.81*	0.23	708	3
17.69	0.45	-2.78*	0.14	731	4
----RACE ----					
21.02	0.44	0.55	0.32	337	MINORITY
20.38	0.28	-0.09	0.07	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
19.92	0.29	-0.55*	0.17	993	LOW
20.75	0.42	0.28*	0.12	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
20.04	0.28	-0.43	0.66	168	MINORITY LOW
19.86	0.31	-0.61*	0.12	816	NON-MINORITY LOW
22.08	0.30	1.61	0.89	169	MINORITY NON-LOW
20.62	0.30	0.15	0.16	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM : 7

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
60,55	0,42			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
62,55	0,36	2,00*	0,25	1,450	MALE
58,80	0,40	-1,75*	0,39	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
52,49	1,09	-8,06*	0,53	557	1
66,14	0,63	5,59*	0,47	919	2
64,47	0,42	3,92*	0,52	708	3
55,60	0,48	-4,95*	0,09	731	4
----RACE					----
37,52	0,74	-23,03*	0,74	337	MINORITY
63,65	0,41	3,10*	0,06	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
50,63	0,46	-9,92*	0,23	993	LOW
65,70	0,41	5,15*	0,18	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
28,67	0,87	-31,88*	0,98	168	MINORITY LOW
55,51	0,42	-5,04*	0,34	816	NON-MINORITY LOW
46,95	0,35	-13,60*	1,18	169	MINORITY NON-LOW
67,43	0,43	6,88*	0,17	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM : 8

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
94.66	0.49			2,915	ALL STUDENTS
----SEX OF THE STUDENT ----					
93.37	0.43	-1.29*	0.39	1,450	MALE
95.88	0.35	1.22*	0.33	1,457	FEMALE
----SIZE OF THE COMMUNITY ----					
91.51	0.52	-3.15*	0.53	557	1
95.75	0.35	1.09*	0.19	919	2
95.45	0.71	0.79*	0.36	708	3
95.07	0.36	0.41	0.32	731	4
----RACE ----					
86.98	0.88	-7.68*	0.70	337	MINORITY
95.75	0.25	1.09*	0.09	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
91.61	0.43	-3.05*	0.26	993	LOW
96.24	0.24	1.58*	0.17	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
82.89	1.00	-11.77*	1.22	168	MINORITY LOW
93.66	0.44	-1.00*	0.29	816	NON-MINORITY LOW
91.34	0.63	-3.32*	0.45	169	MINORITY NON-LOW
96.72	0.26	2.06*	0.17	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM : 9

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
64.85	0.51			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
68.51	0.41	3.66*	0.39	1,450		MALE
61.28	0.52	-3.57*	0.51	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
53.94	0.84	-10.91*	1.59	557		1
70.54	0.58	5.69*	0.74	919		2
65.59	1.09	0.74	0.71	708		3
65.28	0.84	0.43	0.41	731		4
----RACE					----	
37.89	0.46	-26.96*	1.15	337		MINORITY
68.41	0.46	3.56*	0.18	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
54.78	0.58	-10.07*	0.56	993		LOW
70.09	0.38	5.24*	0.33	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
27.74	1.22	-37.11*	1.06	168		MINORITY LOW
60.79	0.61	-4.06*	0.39	816		NON-MINORITY LOW
48.72	1.07	-16.13*	1.41	169		MINORITY NON-LOW
71.96	0.41	7.11*	0.37	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE SCIENCE"

ITEM 110

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
78.85	0.44			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
79.44	0.67	0.59	0.42	1,450		MALE
78.28	0.53	-0.57	0.53	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
70.84	1.05	-8.01*	1.26	557		1
82.70	0.62	3.85*	0.54	919		2
80.69	0.70	1.84*	0.56	708		3
78.45	0.77	-0.40	0.52	731		4
----RACE					----	
57.10	1.84	-21.75*	1.17	337		MINORITY
81.72	0.42	2.87*	0.13	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
71.30	0.52	-7.55*	0.54	993		LOW
82.78	0.67	3.93*	0.23	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
50.61	0.86	-28.24*	2.31	168		MINORITY LOW
75.74	0.67	-3.11*	0.56	816		NON-MINORITY LOW
64.02	0.77	-14.83*	2.18	169		MINORITY NON-LOW
84.50	0.71	5.65*	0.26	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

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ITEM #11

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
40.04	0.87			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
43.96	0.60	3.92*	0.86	1,450		MALE
36.31	0.78	-3.73*	0.77	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
36.15	0.94	-3.89*	0.93	557		1
43.75	1.28	3.71*	0.86	919		2
40.32	1.87	0.28	0.89	708		3
37.63	0.80	-2.41*	0.62	731		4
----RACE					----	
27.69	1.20	-12.35*	1.26	337		MINORITY
41.73	0.88	1.69*	0.31	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
31.89	0.77	-8.15*	0.74	993		LOW
44.28	0.98	4.24*	0.44	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
29.67	1.33	-10.37*	1.29	168		MINORITY LOW
32.30	0.81	-7.74*	0.91	816		NON-MINORITY LOW
25.58	1.53	-14.46*	1.37	169		MINORITY NON-LOW
46.11	1.01	6.07*	0.47	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM 112

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
53.28	0.52			2,915	ALL STUDENTS
----SEX OF THE STUDENT				----	
58.00	0.21	4.72*	0.16	1,450	MALE
48.63	0.27	-4.65*	0.22	1,457	FEMALE
----SIZE OF THE COMMUNITY				----	
49.01	0.37	-4.27*	0.60	557	1
55.67	0.26	2.39*	0.31	919	2
55.50	0.24	2.22*	0.30	708	3
51.38	0.25	-1.90*	0.15	731	4
----RACE				----	
33.08	0.56	-20.20*	0.63	337	MINORITY
56.07	0.19	2.79*	0.08	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
45.98	0.20	-7.30*	0.26	993	LOW
57.07	0.20	3.79*	0.19	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
26.07	0.20	-27.21*	0.70	168	MINORITY LOW
50.62	0.19	-2.66*	0.19	816	NON-MINORITY LOW
40.54	0.58	-12.74*	0.70	169	MINORITY NON-LOW
58.60	0.18	5.32*	0.21	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM :13

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
73.87	0.48			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
79.04	0.32	5.17*	0.23	1,450	MALE
68.75	0.35	-5.12*	0.35	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
57.85	0.49	-16.02*	0.48	557	1
79.97	0.57	6.10*	0.42	919	2
76.88	0.31	3.01*	0.51	708	3
76.08	0.48	2.21*	0.28	731	4
----RACE					----
49.49	0.96	-24.38*	0.33	337	MINORITY
77.25	0.34	3.38*	0.08	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
64.66	0.55	-9.21*	0.24	993	LOW
78.66	0.38	4.79*	0.12	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
41.10	0.27	-32.77*	1.06	168	MINORITY LOW
70.05	0.26	-3.82*	0.27	816	NON-MINORITY LOW
58.43	0.36	-15.44*	1.49	169	MINORITY NON-LOW
80.60	0.37	6.73*	0.19	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM 114

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
61.76	0.45			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
63.06	0.37	1.30*	0.35	1,450		MALE
60.74	0.51	-1.02*	0.51	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
54.03	0.99	-7.73*	1.01	557		1
65.60	0.72	3.84*	0.62	919		2
64.70	0.81	2.94*	0.55	708		3
60.07	1.09	-1.69*	0.28	731		4
----RACE					----	
45.33	0.71	-16.43*	0.50	337		MINORITY
64.07	0.44	2.31*	0.12	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
54.97	0.53	-6.79*	0.52	993		LOW
65.28	0.48	3.52*	0.19	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
40.64	0.25	-21.12*	1.18	168		MINORITY LOW
58.30	0.60	-3.46*	0.55	816		NON-MINORITY LOW
50.34	0.54	-11.42*	1.66	169		MINORITY NON-LOW
66.76	0.51	5.00*	0.22	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #15

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
35,38	0,43			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
37,01	0,43	1,63*	0,28	1,450		MALE
34,01	0,43	-1,37*	0,43	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
27,30	1,14	-8,08*	1,25	557		1
40,63	0,64	5,25*	0,51	919		2
35,20	0,66	-0,18	0,73	708		3
34,77	0,65	-0,61	0,47	731		4
----RACE					----	
23,96	0,81	-11,42*	0,63	337		MINORITY
36,97	0,36	1,59*	0,17	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
29,67	0,49	-5,71*	0,45	993		LOW
38,34	0,44	2,96*	0,31	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
20,01	0,59	-15,37*	0,98	168		MINORITY LOW
32,09	0,58	-3,29*	0,37	816		NON-MINORITY LOW
28,17	0,49	-7,21*	1,80	169		MINORITY NON-LOW
39,24	0,46	3,86*	0,39	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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ITEM #16

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
94.59	0.78			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
91.89	0.38	-2.70*	0.32	1,450		MALE
97.20	0.50	2.61*	0.47	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
93.39	0.61	-1.20	0.67	557		1
94.23	0.49	-0.36	0.42	919		2
95.03	0.34	0.44	0.44	708		3
95.80	0.54	1.21*	0.24	731		4
----RACE					----	
87.52	0.98	-7.07*	0.84	337		MINORITY
95.64	0.38	1.05*	0.09	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
92.39	0.50	-2.20*	0.38	993		LOW
95.74	0.28	1.15*	0.24	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
84.94	0.73	-9.65*	1.14	168		MINORITY LOW
94.15	0.59	-0.44	0.48	816		NON-MINORITY LOW
90.26	0.91	-4.33*	0.73	169		MINORITY NON-LOW
96.34	0.30	1.75*	0.22	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #17

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
81.31	1.01			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
80.24	0.73	-1.07*	0.33	1,450		MALE
82.38	0.53	1.07*	0.53	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
77.22	1.04	-4.09*	1.10	557		1
82.84	0.83	1.53	0.85	919		2
81.51	0.72	0.20	0.50	708		3
82.45	0.40	1.14	0.61	731		4
----RACE					----	
76.88	1.19	-4.43*	0.54	337		MINORITY
81.91	0.61	0.60*	0.19	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
80.38	0.69	-0.93*	0.43	993		LOW
81.79	0.62	0.48	0.36	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
77.09	1.50	-4.22*	1.90	168		MINORITY LOW
80.99	0.80	-0.32	0.55	816		NON-MINORITY LOW
76.66	0.43	-4.65*	1.62	169		MINORITY NON-LOW
82.34	0.65	1.03*	0.38	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #18

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
42.49	0.60			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
47.14	0.25	4.65*	0.16	1,450		MALE
38.12	0.23	-4.37*	0.22	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
37.49	0.56	-5.00*	0.26	557		1
47.13	0.38	4.64*	0.14	919		2
44.87	0.23	2.38*	0.31	708		3
37.69	0.31	-4.80*	0.18	731		4
----RACE					----	
27.28	0.32	-15.21*	0.36	337		MINORITY
44.74	0.29	2.25*	0.07	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
34.38	0.19	-8.11*	0.18	993		LOW
46.70	0.30	4.21*	0.10	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
27.11	0.21	-15.38*	0.39	168		MINORITY LOW
36.20	0.26	-6.29*	0.20	816		NON-MINORITY LOW
27.46	0.23	-15.03*	0.72	169		MINORITY NON-LOW
48.71	0.32	6.22*	0.14	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
44.53	1.08			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
43.47	0.38	-1.06*	0.22	1,450	MALE
45.53	0.47	1.00*	0.43	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
39.78	0.57	-4.75*	0.29	557	1
46.99	0.32	2.46*	0.44	919	2
42.83	0.41	-1.70*	0.36	708	3
46.63	0.47	2.10*	0.32	731	4
----RACE					----
33.10	0.82	-11.43*	0.28	337	MINORITY
46.01	0.41	1.48*	0.11	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
41.55	0.38	-2.98*	0.20	993	LOW
46.09	0.36	1.56*	0.23	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
31.35	0.49	-13.18*	0.84	168	MINORITY LOW
43.63	0.29	-0.90*	0.21	816	NON-MINORITY LOW
34.97	0.38	-9.56*	1.19	169	MINORITY NON-LOW
47.12	0.39	2.59*	0.27	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM 120

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
52.45	0.99			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
48.14	0.51	-4.31*	0.23	1,450		MALE
56.82	0.52	4.37*	0.52	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
55.30	1.04	2.85*	0.36	557		1
53.38	0.65	0.93	0.53	919		2
47.04	0.56	-5.41*	0.36	708		3
53.54	0.61	1.09*	0.32	731		4
----RACE					----	
56.02	0.93	3.57*	0.70	337		MINORITY
52.00	0.43	-0.45*	0.11	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
51.17	0.54	-1.28*	0.34	993		LOW
53.12	0.50	0.67*	0.16	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
59.56	0.97	7.11*	1.32	168		MINORITY LOW
49.70	0.61	-2.75*	0.31	816		NON-MINORITY LOW
52.25	0.74	-0.20	1.86	169		MINORITY NON-LOW
53.06	0.41	0.61*	0.18	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM :21

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
21.00	0.37			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
28.06	0.41	7.06*	0.31	1,450	MALE
14.00	0.42	-7.00*	0.42	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
15.44	1.00	-5.56*	1.12	557	1
25.25	0.58	4.25*	0.42	919	2
20.77	0.58	-0.23	0.60	708	3
19.75	0.59	-1.25*	0.28	731	4
----RACE					----
15.86	0.71	-5.14*	0.62	337	MINORITY
21.78	0.40	0.78*	0.19	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
16.28	0.49	-4.72*	0.50	993	LOW
23.46	0.39	2.46*	0.31	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
14.41	0.66	-6.59*	1.49	168	MINORITY LOW
16.65	0.56	-4.35*	0.53	816	NON-MINORITY LOW
17.40	0.52	-3.60*	1.54	169	MINORITY NON-LOW
24.16	0.42	3.16*	0.33	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #22

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
66.49	0.39			2,915	ALL STUDENTS
----SEX OF THE STUDENT				----	
71.34	0.52	4.85*	0.33	1,450	MALE
61.83	0.58	-4.66*	0.58	1,457	FEMALE
----SIZE OF THE COMMUNITY				----	
59.44	1.36	-7.05*	1.32	557	1
68.76	0.57	2.27*	0.72	919	2
66.91	0.49	0.42	0.74	708	3
68.95	0.86	2.46*	0.28	731	4
----RACE				----	
50.43	1.76	-16.06*	0.85	337	MINORITY
68.65	0.41	2.16*	0.18	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
63.16	0.83	-3.33*	0.50	993	LOW
68.22	0.48	1.73*	0.25	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
49.76	0.63	-16.73*	2.07	168	MINORITY LOW
66.11	0.66	-0.38	0.59	816	NON-MINORITY LOW
51.15	1.07	-15.34*	1.62	169	MINORITY NON-LOW
69.83	0.54	3.34*	0.27	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM :23

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
45.04	1.03			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
49.44	0.60	4.40*	0.47	1,450		MALE
40.71	0.74	-4.33*	0.70	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
44.07	1.78	-0.97	0.63	557		1
49.02	0.76	3.98*	0.50	919		2
43.04	0.53	-2.00*	0.69	708		3
41.72	0.60	-3.32*	0.54	731		4
----RACE					----	
38.60	1.69	-6.44*	1.14	337		MINORITY
45.97	0.52	0.93*	0.20	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
40.45	0.60	-4.59*	0.62	993		LOW
47.42	0.58	2.38*	0.48	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
39.22	0.41	-5.82*	0.52	168		MINORITY LOW
41.03	0.63	-4.01*	0.74	816		NON-MINORITY LOW
37.94	0.36	-7.10*	2.34	169		MINORITY NON-LOW
48.26	0.55	3.22*	0.43	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #24

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
14.37	1.12			2,915	ALL STUDENTS
----SEX OF THE STUDENT----					
18.86	0.28	4.49*	0.20	1,450	MALE
9.91	0.32	-4.46*	0.16	1,457	FEMALE
----SIZE OF THE COMMUNITY----					
11.16	0.38	-3.21*	0.43	557	1
16.03	0.44	1.66*	0.17	919	2
15.62	0.42	1.25*	0.21	708	3
13.56	0.33	-0.81*	0.16	731	4
----RACE----					
5.30	0.22	-9.07*	0.20	337	MINORITY
15.60	0.32	1.23*	0.06	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS----					
9.86	0.14	-4.51*	0.26	993	LOW
16.71	0.33	2.34*	0.07	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS----					
2.04	0.00	-12.33*	0.23	168	MINORITY LOW
11.71	0.17	-2.66*	0.27	816	NON-MINORITY LOW
8.77	0.44	-5.60*	0.23	169	MINORITY NON-LOW
17.40	0.35	3.03*	0.08	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM :25

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
79,71	0,79			2,915	ALL STUDENTS
----SEX OF THE STUDENT				----	
81,20	0,29	1,49*	0,21	1,450	MALE
78,20	0,40	-1,51*	0,35	1,457	FEMALE
----SIZE OF THE COMMUNITY				----	
73,17	0,66	-6,54*	0,42	557	1
81,48	0,49	1,77*	0,35	919	2
80,11	0,44	0,40*	0,17	708	3
82,49	0,42	2,78*	0,25	731	4
----RACE				----	
63,10	0,66	-16,61*	0,65	337	MINORITY
82,04	0,27	2,33*	0,09	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
75,81	0,28	-3,90*	0,30	993	LOW
81,74	0,32	2,03*	0,19	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
62,14	0,47	-17,57*	0,66	168	MINORITY LOW
79,00	0,34	-0,71*	0,24	816	NON-MINORITY LOW
64,12	0,47	-13,59*	1,22	169	MINORITY NON-LOW
83,45	0,33	3,74*	0,22	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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ITEM 126

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
62.08	0.86			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
65.99	0.41	3.91*	0.32	1,450		MALE
58.41	0.59	-3.67*	0.55	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
55.25	1.41	-6.83*	0.50	557		1
64.45	0.61	2.37*	0.46	919		2
63.78	0.56	1.70*	0.51	708		3
62.97	0.28	0.89*	0.31	731		4
----RACE					----	
51.51	0.99	-10.57*	0.75	337		MINORITY
63.66	0.46	1.58*	0.11	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
57.70	0.48	-4.38*	0.47	993		LOW
64.35	0.38	2.27*	0.28	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
49.18	0.92	-12.90*	0.56	168		MINORITY LOW
60.02	0.39	-2.06*	0.27	816		NON-MINORITY LOW
53.99	0.66	-8.09*	0.80	169		MINORITY NON-LOW
65.35	0.44	3.27*	0.28	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #27

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
60.88	0.63			2,915	ALL STUDENTS
----SEX OF THE STUDENT				----	
64.07	0.55	3.19*	0.43	1,450	MALE
57.73	0.45	-3.15*	0.44	1,457	FEMALE
----SIZE OF THE COMMUNITY				----	
49.12	1.38	-11.76*	0.97	557	1
64.53	0.85	3.65*	0.59	919	2
61.94	0.63	1.06*	0.52	708	3
64.84	0.72	3.96*	0.52	731	4
----RACE				----	
32.35	0.62	-28.53*	1.37	337	MINORITY
64.72	0.56	3.84*	0.12	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
52.01	0.58	-8.87*	0.59	993	LOW
65.49	0.48	4.61*	0.27	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
23.96	1.66	-36.92*	0.95	168	MINORITY LOW
58.15	0.72	-2.73*	0.47	816	NON-MINORITY LOW
41.28	0.43	-19.60*	2.03	169	MINORITY NON-LOW
67.77	0.48	6.89*	0.35	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM 128

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
77.35	1.33			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
77.41	0.58	0.06	0.29	1,450		MALE
77.22	0.57	-0.13	0.50	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
75.37	0.82	-1.98	1.10	557		1
77.99	0.93	0.64	0.88	919		2
79.73	0.72	2.38*	0.85	708		3
75.94	0.66	-1.41*	0.27	731		4
----RACE					----	
69.13	0.83	-8.22*	1.02	337		MINORITY
78.38	0.56	1.03*	0.18	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
72.40	0.66	-4.95*	0.44	993		LOW
79.92	0.47	2.57*	0.38	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
66.90	1.37	-10.45*	0.93	168		MINORITY LOW
73.59	0.57	-3.76*	0.51	816		NON-MINORITY LOW
71.51	0.48	-5.84*	1.62	169		MINORITY NON-LOW
80.60	0.63	3.25*	0.48	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM 129

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
68,65	1,32			2,915	ALL STUDENTS
----SEX OF THE STUDENT				----	
68,01	0,68	-0,64	0,40	1,450	MALE
69,45	0,75	0,80	0,66	1,457	FEMALE
----SIZE OF THE COMMUNITY				----	
64,46	1,48	-4,19*	2,11	557	1
69,94	0,78	1,29*	0,60	919	2
68,35	1,26	-0,30	0,79	708	3
70,72	0,99	2,07*	0,71	731	4
----RACE				----	
53,72	0,66	-14,93*	1,66	337	MINORITY
70,66	0,68	2,01*	0,17	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
62,17	0,56	-6,48*	0,67	993	LOW
72,02	0,74	3,37*	0,36	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
46,36	0,90	-22,29*	1,72	168	MINORITY LOW
65,75	0,79	-2,90*	0,49	816	NON-MINORITY LOW
61,56	0,76	-7,09*	2,38	169	MINORITY NON-LOW
72,95	0,76	4,30*	0,39	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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ITEM 130

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
79.68	1.27			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
78.87	0.25	-0.81*	0.10	1,450		MALE
80.34	0.31	0.66*	0.13	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
72.11	0.37	-7.57*	0.46	557		1
82.89	0.46	3.21*	0.21	919		2
81.46	0.36	1.78*	0.13	708		3
79.89	0.45	0.21*	0.08	731		4
----RACE					----	
62.25	0.39	-17.43*	0.29	337		MINORITY
81.95	0.44	2.27*	0.05	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
73.01	0.21	-6.67*	0.16	993		LOW
83.15	0.44	3.47*	0.11	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
56.35	0.18	-23.33*	0.44	168		MINORITY LOW
76.60	0.24	-3.08*	0.16	816		NON-MINORITY LOW
68.53	0.37	-11.15*	0.47	169		MINORITY NON-LOW
84.44	0.30	4.76*	0.11	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #31

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
64.58	1.31			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
73.15	0.38	8.57*	0.23	1,450		MALE
56.03	0.40	-8.55*	0.30	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
53.86	0.57	-10.72*	0.43	557		1
66.60	0.59	2.02*	0.32	919		2
70.38	0.44	5.80*	0.28	708		3
65.69	0.57	1.11*	0.30	731		4
----RACE					----	
50.14	0.70	-14.44*	0.46	337		MINORITY
66.61	0.49	2.03*	0.07	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
60.08	0.27	-4.50*	0.30	993		LOW
66.92	0.52	2.34*	0.15	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
43.32	0.36	-21.26*	1.27	168		MINORITY LOW
64.06	0.32	-0.52*	0.22	816		NON-MINORITY LOW
57.41	0.36	-7.17*	0.77	169		MINORITY NON-LOW
67.79	0.52	3.21*	0.19	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #32

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
27,31	0,82			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
26,78	0,43	-0,53	0,47	1,450	MALE
27,76	0,46	0,45	0,41	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
20,93	0,74	-6,38*	0,50	557	1
33,07	0,61	5,76*	0,50	919	2
28,55	0,65	1,24	0,65	708	3
23,13	0,59	-4,18*	0,35	731	4
----RACE					----
15,31	0,65	-12,00*	0,48	337	MINORITY
28,87	0,41	1,56*	0,16	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
19,72	0,36	-7,59*	0,31	993	LOW
31,26	0,42	3,95*	0,25	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
13,74	0,40	-13,57*	1,58	168	MINORITY LOW
20,86	0,47	-6,45*	0,32	816	NON-MINORITY LOW
16,98	0,93	-10,33*	1,13	169	MINORITY NON-LOW
32,60	0,37	5,29*	0,32	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #33

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
52,20	1,03			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
54,76	0,61	2,56*	0,44	1,450	MALE
49,72	0,69	-2,48*	0,69	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
45,56	1,63	-6,64*	0,47	557	1
56,66	0,66	4,46*	0,44	919	2
52,49	0,80	0,29	0,60	708	3
51,07	0,73	-1,13*	0,46	731	4
----RACE					----
36,56	1,00	-15,64*	0,65	337	MINORITY
54,44	0,48	2,24*	0,09	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
46,45	0,71	-5,75*	0,31	993	LOW
55,19	0,47	2,99*	0,27	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
33,47	0,28	-18,73*	1,25	168	MINORITY LOW
49,39	0,63	-2,81*	0,32	816	NON-MINORITY LOW
39,86	0,59	-12,34*	1,82	169	MINORITY NON-LOW
56,79	0,56	4,59*	0,31	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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ITEM :34

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
74.79	0.67			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
73.24	0.54	-1.55*	0.44	1,450		MALE
76.36	0.66	1.57*	0.65	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
65.11	1.33	-9.68*	1.11	557		1
79.65	0.86	4.86*	0.36	919		2
74.27	0.64	-0.52	0.53	708		3
76.52	0.79	1.73*	0.43	731		4
----RACE					----	
46.99	1.63	-27.80*	1.11	337		MINORITY
78.55	0.50	3.76*	0.16	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
66.06	0.51	-8.73*	0.52	993		LOW
79.33	0.44	4.54*	0.24	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
43.57	0.98	-31.22*	0.96	168		MINORITY LOW
70.95	0.64	-3.84*	0.33	816		NON-MINORITY LOW
50.65	1.12	-24.14*	1.46	169		MINORITY NON-LOW
82.08	0.39	7.29*	0.25	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM 135

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
76,03	0,80			2,915	ALL STUDENTS
----SEX OF THE STUDENT ----					
77,87	0,61	1,84*	0,40	1,450	MALE
74,23	0,58	-1,80*	0,55	1,457	FEMALE
----SIZE OF THE COMMUNITY ----					
69,21	1,87	-6,82*	1,52	557	1
80,65	0,93	4,62*	0,50	919	2
77,58	0,74	1,55*	0,69	708	3
73,64	1,00	-2,39*	0,65	731	4
----RACE ----					
57,39	1,62	-18,64*	0,94	337	MINORITY
78,61	0,58	2,58*	0,10	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
66,36	0,78	-9,67*	0,73	993	LOW
81,05	0,49	5,02*	0,33	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
48,34	0,48	-27,69*	2,05	168	MINORITY LOW
70,44	0,83	-5,59*	0,37	816	NON-MINORITY LOW
67,03	0,96	-9,00*	2,08	169	MINORITY NON-LOW
82,41	0,45	6,38*	0,28	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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ITEM :36

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
50.56	1.34			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
54.20	0.38	3.64*	0.10	1,450		MALE
47.18	0.36	-3.38*	0.17	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
40.67	0.22	-9.89*	0.24	557		1
54.29	0.27	3.73*	0.15	919		2
53.91	0.41	3.35*	0.16	708		3
50.63	0.40	0.07	0.09	731		4
----RACE					----	
29.96	0.32	-20.60*	0.18	337		MINORITY
53.56	0.34	3.00*	0.06	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
40.60	0.14	-9.96*	0.11	993		LOW
55.74	0.36	5.18*	0.06	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
22.06	0.16	-28.50*	0.58	168		MINORITY LOW
44.97	0.17	-5.59*	0.16	816		NON-MINORITY LOW
38.37	0.49	-12.19*	0.62	169		MINORITY NON-LOW
57.55	0.31	6.99*	0.12	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #37

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
60.20	0.76			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
69.59	0.33	9.39*	0.26	1,450		MALE
51.09	0.37	-9.11*	0.28	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
46.34	0.46	-13.86*	0.24	557		1
64.51	0.45	4.31*	0.26	919		2
61.34	0.45	1.14*	0.38	708		3
64.94	0.37	4.74*	0.20	731		4
----RACE					----	
31.97	0.79	-28.23*	0.72	337		MINORITY
64.08	0.35	3.88*	0.06	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
51.66	0.45	-8.54*	0.36	993		LOW
64.63	0.31	4.43*	0.17	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
27.95	0.39	-32.25*	0.89	168		MINORITY LOW
57.09	0.36	-3.11*	0.22	816		NON-MINORITY LOW
36.25	0.36	-23.95*	1.42	169		MINORITY NON-LOW
67.32	0.35	7.12*	0.20	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

"12TH GRADE SCIENCE"

ITEM 138

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
82,70	0,76			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
86,91	0,50	4,21*	0,23	1,450		MALE
78,76	0,58	-3,94*	0,55	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
73,51	0,48	-9,19*	0,58	557		1
85,35	0,78	2,65*	0,35	919		2
84,26	0,54	1,56*	0,38	708		3
85,43	0,37	2,73*	0,33	731		4
----RACE					----	
62,42	1,49	-20,28*	0,41	337		MINORITY
85,57	0,46	2,87*	0,10	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
76,89	0,52	-5,81*	0,25	993		LOW
85,72	0,43	3,02*	0,17	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
57,79	0,58	-24,91*	0,64	168		MINORITY LOW
81,37	0,55	-1,33*	0,29	816		NON-MINORITY LOW
67,36	0,51	-15,34*	1,67	169		MINORITY NON-LOW
87,52	0,36	4,82*	0,20	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE SCIENCE"

ITEM #39

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
55.23	0.95			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
56.97	0.45	1.74*	0.25	1,450		MALE
53.54	0.65	-1.69*	0.59	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
50.57	1.27	-4.66*	0.83	557		1
56.77	0.64	1.54*	0.44	919		2
55.12	0.61	-0.11	0.54	708		3
57.13	0.52	1.90*	0.34	731		4
----RACE					----	
35.78	0.69	-19.45*	1.21	337		MINORITY
58.05	0.47	2.82*	0.12	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
50.53	0.56	-4.70*	0.52	993		LOW
57.67	0.52	2.44*	0.24	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
30.93	0.87	-24.30*	1.95	168		MINORITY LOW
55.15	0.55	-0.08	0.39	816		NON-MINORITY LOW
40.95	0.74	-14.28*	1.63	169		MINORITY NON-LOW
59.39	0.52	4.16*	0.22	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM :40

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
59.28	1.41			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
59.26	0.52	-0.02	0.44	1,450	MALE
59.33	0.65	0.05	0.61	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
60.09	1.29	0.81	0.69	557	1
59.58	1.02	0.30	0.59	919	2
59.72	0.80	0.44	0.56	708	3
57.68	0.46	-1.60*	0.69	731	4
----RACE					----
57.50	0.94	-1.78	1.01	337	MINORITY
59.41	0.70	0.13	0.18	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
58.78	0.51	-0.50	0.54	993	LOW
59.53	0.69	0.25	0.32	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
55.95	1.02	-3.33*	0.79	168	MINORITY LOW
59.54	0.52	0.26	0.59	816	NON-MINORITY LOW
59.16	0.79	-0.12	2.23	169	MINORITY NON-LOW
59.35	0.82	0.07	0.39	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #41

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
41.55	1.26			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
47.94	0.82	6.39*	0.42	1,450		MALE
35.56	0.57	-5.99*	0.56	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
31.77	1.47	-9.78*	1.03	557		1
47.10	0.81	5.55*	0.81	919		2
41.80	1.21	0.25	0.14	708		3
41.62	0.85	0.07	0.68	731		4
----RACE					----	
20.99	1.23	-20.56*	1.07	337		MINORITY
44.51	0.60	2.96*	0.23	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
33.68	0.89	-7.87*	0.57	993		LOW
45.65	0.66	4.10*	0.28	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
16.84	0.74	-24.71*	1.71	168		MINORITY LOW
37.72	0.66	-3.83*	0.36	816		NON-MINORITY LOW
25.42	0.60	-16.13*	2.16	169		MINORITY NON-LOW
47.66	0.71	6.11*	0.56	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #42

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
82.77	0.89			2,915	ALL STUDENTS
----SEX OF THE STUDENT ----					
80.75	0.13	-2.02*	0.08	1,450	MALE
84.77	0.27	2.00*	0.08	1,457	FEMALE
----SIZE OF THE COMMUNITY ----					
74.80	0.32	-7.97*	0.29	557	1
85.37	0.29	2.60*	0.07	919	2
83.10	0.32	0.33*	0.07	708	3
85.61	0.16	2.84*	0.07	731	4
----RACE ----					
59.11	0.24	-23.66*	0.31	337	MINORITY
86.05	0.29	3.28*	0.03	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
76.98	0.13	-5.79*	0.09	993	LOW
85.77	0.09	3.00*	0.05	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
53.21	0.18	-29.56*	0.10	168	MINORITY LOW
82.34	0.12	-0.43*	0.08	816	NON-MINORITY LOW
65.39	0.25	-17.38*	0.14	169	MINORITY NON-LOW
87.78	0.27	5.01*	0.06	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #43

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
56.72	1.14			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
55.49	0.47	-1.23*	0.29	1,450		MALE
57.71	0.33	0.99*	0.24	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
48.91	0.53	-7.81*	0.35	557		1
59.85	0.36	3.13*	0.47	919		2
58.09	0.39	1.37*	0.29	708		3
57.64	0.30	0.92*	0.29	731		4
----RACE					----	
45.18	0.66	-11.54*	0.42	337		MINORITY
58.16	0.32	1.44*	0.12	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
52.24	0.32	-4.48*	0.19	993		LOW
59.04	0.33	2.32*	0.24	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
40.50	0.19	-16.22*	0.91	168		MINORITY LOW
54.58	0.36	-2.14*	0.16	816		NON-MINORITY LOW
50.16	0.42	-6.56*	1.22	169		MINORITY NON-LOW
59.83	0.42	3.11*	0.25	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #44

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
65.87	1.18			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
66.74	0.41	0.87*	0.19	1,450		MALE
65.24	0.53	-0.63	0.45	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
56.16	0.84	-9.71*	0.70	557		1
71.01	0.68	5.14*	0.35	919		2
69.97	0.82	4.10*	0.33	708		3
62.92	0.76	-2.95*	0.13	731		4
----RACE					----	
40.02	0.83	-25.85*	0.75	337		MINORITY
69.31	0.47	3.44*	0.08	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
58.25	0.43	-7.62*	0.25	993		LOW
69.83	0.43	3.96*	0.17	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
36.71	0.47	-29.16*	1.24	168		MINORITY LOW
62.95	0.39	-2.92*	0.27	816		NON-MINORITY LOW
43.54	0.70	-22.33*	1.37	169		MINORITY NON-LOW
72.27	0.41	6.40*	0.16	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM :45

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
65,76	1,49			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
65,00	0,58	-0,76*	0,35	1,450	MALE
66,71	0,56	0,95*	0,46	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
57,69	1,13	-8,07*	0,89	557	1
70,19	0,96	4,43*	0,38	919	2
66,83	0,65	1,07	0,64	708	3
65,24	0,63	-0,52	0,31	731	4
----RACE					----
49,07	0,80	-16,69*	1,21	337	MINORITY
68,16	0,46	2,40*	0,09	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
58,98	0,45	-6,78*	0,25	993	LOW
69,28	0,60	3,52*	0,25	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
47,57	0,97	-18,19*	1,26	168	MINORITY LOW
61,75	0,55	-4,01*	0,29	816	NON-MINORITY LOW
50,67	0,87	-15,09*	1,84	169	MINORITY NON-LOW
71,14	0,72	5,38*	0,21	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM 146

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
80,22	0.93			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
77,28	0.47	-2.94*	0.34	1,450		MALE
83,21	0.76	2.99*	0.72	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
75,03	0,70	-5,19*	1,04	557		1
83,02	0,82	2,80*	0,48	919		2
80,74	0,68	0,52	0,74	708		3
80,11	0,46	-0,11	0,38	731		4
----RACE					----	
64,44	1,38	-15,78*	0,83	337		MINORITY
82,35	0,53	2,13*	0,14	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
71,86	0,60	-8,36*	0,71	993		LOW
84,56	0,44	4,34*	0,18	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
60,52	0,82	-19,70*	1,47	168		MINORITY LOW
74,33	0,59	-5,89*	0,45	816		NON-MINORITY LOW
68,62	0,89	-11,60*	2,36	169		MINORITY NON-LOW
86,08	0,44	5,86*	0,23	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM :47

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
67.81	1.23			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
67.82	0.75	0.01	0.36	1,450		MALE
68.01	0.56	0.20	0.51	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
62.62	2.16	-5.19*	1.03	557		1
71.62	1.03	3.81*	0.77	919		2
69.86	0.93	2.05*	0.80	708		3
64.78	0.79	-3.03*	0.29	731		4
----RACE					----	
50.39	1.10	-17.42*	0.82	337		MINORITY
70.44	0.67	2.63*	0.14	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
58.47	0.65	-9.34*	0.62	993		LOW
72.67	0.55	4.86*	0.29	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
45.53	1.53	-22.28*	0.76	168		MINORITY LOW
61.67	0.70	-6.14*	0.43	816		NON-MINORITY LOW
55.56	0.92	-12.25*	2.01	169		MINORITY NON-LOW
74.52	0.60	6.71*	0.34	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM 148

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
52.20	1.38			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
55.68	0.31	3.48*	0.03	1,450		MALE
48.93	0.37	-3.27*	0.08	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
44.13	0.22	-8.07*	0.10	557		1
55.78	0.13	3.58*	0.04	919		2
54.18	0.12	1.98*	0.05	708		3
52.14	0.08	-0.06	0.07	731		4
----RACE					----	
35.10	0.29	-17.10*	0.07	337		MINORITY
54.66	0.37	2.46*	0.01	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
46.58	0.05	-5.62*	0.05	993		LOW
55.13	0.35	2.93*	0.02	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
30.39	0.12	-21.81*	0.08	168		MINORITY LOW
50.33	0.07	-1.87*	0.07	816		NON-MINORITY LOW
40.11	0.28	-12.09*	0.25	169		MINORITY NON-LOW
56.68	0.36	4.48*	0.03	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #49

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
76,38	1,61			2,915	ALL STUDENTS
----SEX OF THE STUDENT					----
75,22	0,50	-1,16*	0,14	1,450	MALE
77,41	0,55	1,03*	0,28	1,457	FEMALE
----SIZE OF THE COMMUNITY					----
69,22	0,64	-7,16*	0,36	557	1
80,40	0,47	4,02*	0,19	919	2
76,28	0,37	-0,10	0,29	708	3
76,74	0,53	0,36	0,22	731	4
----RACE					----
61,38	0,52	-15,00*	0,59	337	MINORITY
78,31	0,53	1,93*	0,07	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
68,84	0,31	-7,54*	0,16	993	LOW
80,29	0,49	3,91*	0,10	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
54,51	0,43	-21,87*	0,38	168	MINORITY LOW
71,87	0,35	-4,51*	0,21	816	NON-MINORITY LOW
68,71	0,52	-7,67*	1,03	169	MINORITY NON-LOW
81,31	0,40	4,93*	0,12	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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ITEM :50

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
59,83	1,90			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
55,99	0,56	-3,84*	0,25	1,450		MALE
63,69	0,54	3,86*	0,36	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
52,67	0,79	-7,16*	0,60	557		1
64,56	0,77	4,73*	0,37	919		2
59,39	0,70	-0,44	0,46	708		3
59,43	0,53	-0,40	0,44	731		4
----RACE					----	
39,19	1,09	-20,64*	0,65	337		MINORITY
62,56	0,35	2,73*	0,09	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
54,98	0,63	-4,85*	0,33	993		LOW
62,35	0,59	2,52*	0,19	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
38,31	0,69	-21,52*	0,53	168		MINORITY LOW
58,48	0,69	-1,35*	0,26	816		NON-MINORITY LOW
40,12	0,90	-19,71*	0,61	169		MINORITY NON-LOW
64,45	0,43	4,62*	0,19	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #51

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
66.12	0.85			2,915	ALL STUDENTS
----SEX OF THE STUDENT ----					
68.48	0.44	2.36*	0.39	1,450	MALE
63.84	0.52	-2.28*	0.46	1,457	FEMALE
----SIZE OF THE COMMUNITY ----					
55.26	0.85	-10.86*	1.00	557	1
68.67	0.66	2.55*	0.40	919	2
71.67	0.98	5.55*	0.53	708	3
66.79	0.63	0.67	0.47	731	4
----RACE ----					
35.20	1.20	-30.92*	1.03	337	MINORITY
70.34	0.57	4.22*	0.15	2,558	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
57.80	0.43	-8.32*	0.48	993	LOW
70.45	0.33	4.33*	0.21	1,922	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
30.53	0.68	-35.59*	1.08	168	MINORITY LOW
63.82	0.61	-2.30*	0.44	816	NON-MINORITY LOW
40.17	0.47	-25.95*	1.20	169	MINORITY NON-LOW
73.37	0.44	7.25*	0.25	1,742	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #52

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
75.31	2.06			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
74.54	0.83	-0.77*	0.32	1,450		MALE
76.02	0.84	0.71	0.53	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
68.08	1.14	-7.23*	0.54	557		1
78.50	1.31	3.19*	0.41	919		2
76.50	1.10	1.19*	0.42	708		3
75.79	0.96	0.48	0.28	731		4
----RACE					----	
61.96	1.00	-13.35*	0.77	337		MINORITY
77.07	0.76	1.76*	0.05	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
70.12	0.67	-5.19*	0.30	993		LOW
78.00	0.75	2.69*	0.27	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
59.18	1.60	-16.13*	0.84	168		MINORITY LOW
72.29	0.78	-3.02*	0.31	816		NON-MINORITY LOW
64.92	0.69	-10.39*	2.24	169		MINORITY NON-LOW
79.29	0.85	3.98*	0.21	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

ITEM 153

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
66,58	0,80			2,915		ALL STUDENTS
----SEX OF THE STUDENT					----	
68,78	0,67	2,20*	0,38	1,450		MALE
64,34	0,75	-2,24*	0,74	1,457		FEMALE
----SIZE OF THE COMMUNITY					----	
62,28	1,17	-4,30*	1,44	557		1
70,20	1,22	3,62*	0,52	919		2
66,25	1,06	-0,33	0,87	708		3
65,21	0,80	-1,37*	0,23	731		4
----RACE					----	
61,36	1,26	-5,22*	0,78	337		MINORITY
67,35	0,80	0,77*	0,10	2,558		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
63,17	0,70	-3,41*	0,67	993		LOW
68,35	0,73	1,77*	0,30	1,922		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
61,41	1,08	-5,17*	1,52	168		MINORITY LOW
63,50	0,68	-3,08*	0,18	816		NON-MINORITY LOW
61,30	0,68	-5,28*	2,18	169		MINORITY NON-LOW
69,14	0,77	2,56*	0,30	1,742		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM # 1

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
35.57	0.39			2,973	ALL STUDENTS
----SEX OF THE STUDENT ----					
28.62	0.66	-6.95*	0.30	1,389	MALE
42.44	0.61	6.87*	0.61	1,559	FEMALE
----SIZE OF THE COMMUNITY ----					
35.96	1.27	0.39	0.60	572	1
38.12	0.64	2.55*	0.55	951	2
37.44	1.20	1.87*	0.92	699	3
29.79	0.57	-5.78*	0.79	751	4
----RACE ----					
21.61	0.78	-13.96*	0.71	308	MINORITY
37.73	0.51	2.16*	0.17	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
27.30	0.48	-8.27*	0.42	1,060	LOW
40.06	0.53	4.49*	0.30	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
17.65	0.50	-17.92*	1.67	171	MINORITY LOW
30.33	0.59	-5.24*	0.51	862	NON-MINORITY LOW
26.35	0.53	-9.22*	1.41	137	MINORITY NON-LOW
41.21	0.57	5.64*	0.37	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM : 2

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
87,07	2,05			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
86,04	0,57	-1,03*	0,45	1,389	MALE
89,40	0,75	2,33*	0,63	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
83,61	1,14	-3,46*	1,05	572	1
90,21	0,66	3,14*	0,59	951	2
86,65	1,12	-0,42	0,69	699	3
86,06	0,68	-1,01	1,26	751	4
----RACE					----
76,36	1,18	-10,71*	0,86	308	MINORITY
89,32	0,46	2,25*	0,19	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
81,30	0,58	-5,77*	0,48	1,060	LOW
90,21	0,55	3,14*	0,36	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
75,46	0,69	-11,61*	1,21	171	MINORITY LOW
85,03	0,67	-2,04*	0,63	862	NON-MINORITY LOW
77,45	0,83	-9,62*	1,61	137	MINORITY NON-LOW
91,33	0,58	4,26*	0,40	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM : 3

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
32.74	1.94			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
27.21	0.54	-5.53*	0.23	1,389		MALE
38.28	0.41	5.54*	0.33	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
29.39	0.56	-3.35*	0.44	572		1
33.82	0.54	1.08*	0.37	951		2
35.78	0.52	3.04*	0.41	699		3
31.28	0.67	-1.46*	0.37	751		4
----RACE					----	
28.02	0.54	-4.72*	0.39	308		MINORITY
33.77	0.44	1.03*	0.11	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
30.56	0.48	-2.18*	0.22	1,060		LOW
33.92	0.46	1.18*	0.21	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
27.31	0.47	-5.43*	0.44	171		MINORITY LOW
32.37	0.42	-0.37	0.23	862		NON-MINORITY LOW
28.87	0.37	-3.87*	1.57	137		MINORITY NON-LOW
34.42	0.37	1.68*	0.26	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM : 4

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
86,14	1,99			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
82,99	0,37	-3,15*	0,44	1,389		MALE
90,37	0,36	4,23*	0,36	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
82,71	1,27	-3,43*	0,83	572		1
89,75	0,63	3,61*	0,52	951		2
86,36	0,47	0,22	0,39	699		3
83,85	0,54	-2,29*	0,56	751		4
----RACE					----	
77,15	0,96	-8,99*	0,49	308		MINORITY
88,15	0,50	2,01*	0,15	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
80,69	0,51	-5,45*	0,45	1,060		LOW
89,11	0,53	2,97*	0,18	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
76,69	1,08	-9,45*	0,56	171		MINORITY LOW
83,99	0,52	-2,15*	0,47	862		NON-MINORITY LOW
77,69	0,55	-8,45*	1,14	137		MINORITY NON-LOW
90,11	0,56	3,97*	0,21	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM : 5

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
71.45	1.68			2,973	ALL STUDENTS
----SEX OF THE STUDENT ----					
65.97	0.53	-5.48*	0.53	1,389	MALE
77.53	0.57	6.08*	0.50	1,559	FEMALE
----SIZE OF THE COMMUNITY ----					
68.92	1.45	-2.53*	1.12	572	1
70.51	0.83	-0.94	0.66	951	2
73.36	1.40	1.91*	0.59	699	3
73.21	0.48	1.76	1.31	751	4
----RACE ----					
68.26	0.62	-3.19*	1.27	308	MINORITY
72.59	0.49	1.14*	0.23	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
68.44	0.43	-3.01*	0.76	1,060	LOW
73.08	0.64	1.63*	0.43	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
68.08	0.85	-3.37*	0.90	171	MINORITY LOW
70.75	0.56	-0.70	0.61	862	NON-MINORITY LOW
68.47	1.06	-2.98*	1.11	137	MINORITY NON-LOW
73.45	0.56	2.00*	0.47	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM : 6

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
65.63	0.44			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
60.90	0.26	-4.73*	0.14	1,389		MALE
70.94	0.26	5.31*	0.26	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
61.16	0.45	-4.47*	0.30	572		1
68.22	0.43	2.59*	0.25	951		2
67.30	0.36	1.67*	0.31	699		3
64.31	0.18	-1.32*	0.42	751		4
----RACE					----	
55.18	0.22	-10.45*	0.25	308		MINORITY
67.64	0.26	2.01*	0.08	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
58.84	0.31	-6.79*	0.16	1,060		LOW
69.32	0.21	3.69*	0.11	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
53.33	0.23	-12.30*	0.32	171		MINORITY LOW
61.87	0.33	-3.76*	0.22	862		NON-MINORITY LOW
57.39	0.36	-8.24*	0.43	137		MINORITY NON-LOW
70.35	0.17	4.72*	0.13	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM : 7

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
22.67	2.03			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
22.08	0.46	-0.59*	0.28	1,389		MALE
23.59	0.48	0.92*	0.34	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
14.02	0.48	-8.65*	0.65	572		1
22.02	0.54	-0.65	0.55	951		2
27.79	0.56	5.12*	0.67	699		3
26.42	0.61	3.75*	0.53	751		4
----RACE					----	
15.21	0.51	-7.46*	0.36	308		MINORITY
23.84	0.54	1.17*	0.12	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
19.97	0.52	-2.70*	0.30	1,060		LOW
24.14	0.45	1.47*	0.22	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
15.25	0.53	-7.42*	0.53	171		MINORITY LOW
21.74	0.53	-0.93*	0.34	862		NON-MINORITY LOW
15.17	0.41	-7.50*	0.51	137		MINORITY NON-LOW
24.83	0.56	2.16*	0.25	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM : 8

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
84.42	1.34			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
80.00	0.41	-4.42*	0.39	1,389	MALE
89.85	0.46	5.43*	0.44	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
80.52	1.21	-3.90*	0.75	572	1
85.92	0.58	1.50*	0.59	951	2
87.07	0.52	2.65*	0.43	699	3
83.25	0.46	-1.17	0.62	751	4
----RACE					----
69.78	0.97	-14.64*	0.66	308	MINORITY
87.22	0.37	2.80*	0.12	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
78.39	0.51	-6.03*	0.43	1,060	LOW
87.70	0.37	3.28*	0.23	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
70.77	0.65	-13.65*	1.04	171	MINORITY LOW
82.58	0.47	-1.84*	0.50	862	NON-MINORITY LOW
68.59	0.95	-15.83*	1.28	137	MINORITY NON-LOW
89.40	0.41	4.98*	0.24	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM : 9

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
89.89	1.39			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
86.93	0.54	-2.96*	0.49	1,389		MALE
94.01	0.43	4.12*	0.40	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
81.46	1.42	-8.43*	0.99	572		1
92.59	0.60	2.70*	0.75	951		2
93.83	0.53	3.94*	0.50	699		3
89.80	0.54	-0.09	0.58	751		4
----RACE					----	
76.94	1.23	-12.95*	0.51	308		MINORITY
92.48	0.42	2.59*	0.23	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
84.09	0.68	-5.80*	0.80	1,060		LOW
93.04	0.34	3.15*	0.32	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
73.02	1.25	-16.87*	0.72	171		MINORITY LOW
89.12	0.45	-0.77	0.84	862		NON-MINORITY LOW
81.65	0.82	-8.24*	1.77	137		MINORITY NON-LOW
94.05	0.38	4.16*	0.38	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM :10

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
71.49	1.70			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
65.12	0.46	-6.37*	0.28	1,389		MALE
78.45	0.35	6.96*	0.28	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
67.46	0.50	-4.03*	0.37	572		1
74.40	0.47	2.91*	0.25	951		2
73.67	0.51	2.18*	0.34	699		3
68.85	0.27	-2.64*	0.19	751		4
----RACE					----	
61.69	0.40	-9.80*	0.43	308		MINORITY
73.48	0.36	1.99*	0.07	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
63.74	0.38	-7.75*	0.23	1,060		LOW
75.70	0.44	4.21*	0.15	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
60.42	0.31	-11.07*	0.66	171		MINORITY LOW
66.44	0.28	-5.05*	0.24	862		NON-MINORITY LOW
63.22	0.33	-8.27*	1.05	137		MINORITY NON-LOW
76.78	0.44	5.29*	0.18	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #11

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
62.93	2.02			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
52.07	0.54	-10.86*	0.34	1,389	MALE
73.80	0.57	10.87*	0.45	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
59.47	0.43	-3.46*	0.63	572	1
64.85	0.59	1.92*	0.64	951	2
62.95	0.65	0.02	0.53	699	3
63.27	0.45	0.34	0.77	751	4
----RACE					----
45.54	0.70	-17.39*	0.68	308	MINORITY
65.88	0.48	2.95*	0.17	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
52.94	0.60	-9.99*	0.33	1,060	LOW
68.37	0.54	5.44*	0.25	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
38.65	0.94	-24.28*	0.60	171	MINORITY LOW
57.92	0.67	-5.01*	0.39	862	NON-MINORITY LOW
53.81	1.09	-9.12*	1.39	137	MINORITY NON-LOW
69.62	0.54	6.69*	0.29	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #12

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
70,79	1,10			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
63.42	0,58	-7,37*	0,48	1,389		MALE
78,66	0,63	7,87*	0,62	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
66,98	1,18	-3,81*	0,94	572		1
72,89	1,10	2,10*	0,65	951		2
70,68	0,87	-0,11	0,84	699		3
71,31	0,48	0,52	0,94	751		4
----RACE					----	
54,55	1,06	-16,24*	0,97	308		MINORITY
73,68	0,65	2,89*	0,18	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
61,76	0,56	-9,03*	0,44	1,060		LOW
75,71	0,49	4,92*	0,39	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
47,84	1,10	-22,95*	0,83	171		MINORITY LOW
66,93	0,76	-3,86*	0,55	862		NON-MINORITY LOW
62,60	0,65	-8,19*	1,63	137		MINORITY NON-LOW
76,85	0,53	6,06*	0,40	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #13

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
37.61	1.79			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
35.19	0.32	-2.42*	0.10	1,389	MALE
40.44	0.35	2.83*	0.13	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
34.51	0.46	-3.10*	0.25	572	1
37.48	0.26	-0.13	0.12	951	2
37.64	0.37	0.03	0.28	699	3
40.52	0.43	2.91*	0.19	751	4
----RACE					----
31.14	0.27	-6.47*	0.23	308	MINORITY
38.93	0.23	1.32*	0.06	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
32.21	0.18	-5.40*	0.11	1,060	LOW
40.55	0.16	2.94*	0.09	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
28.50	0.17	-9.11*	0.23	171	MINORITY LOW
34.18	0.22	-3.43*	0.11	862	NON-MINORITY LOW
34.31	0.17	-3.30*	0.58	137	MINORITY NON-LOW
41.17	0.16	3.56*	0.09	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #14

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
68.58	1.46			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
62.79	0.50	-5.79*	0.41	1,389		MALE
74.89	0.40	6.31*	0.32	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
59.04	0.66	-9.54*	0.98	572		1
73.77	0.76	5.19*	0.50	951		2
69.60	0.57	1.02	0.57	699		3
68.68	0.61	0.10	0.71	751		4
----RACE					----	
46.19	0.43	-22.39*	0.84	308		MINORITY
72.17	0.46	3.59*	0.14	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
55.50	0.48	-13.08*	0.32	1,060		LOW
75.69	0.43	7.11*	0.23	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
42.56	0.54	-26.02*	0.75	171		MINORITY LOW
59.96	0.60	-8.62*	0.43	862		NON-MINORITY LOW
50.55	0.23	-18.03*	0.57	137		MINORITY NON-LOW
77.91	0.47	9.33*	0.24	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #15

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
0.00	0.00			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
0.00	0.00	0.00	0.00	1,389		MALE
0.00	0.00	0.00	0.00	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
0.00	0.00	0.00	0.00	572		1
0.00	0.00	0.00	0.00	951		2
0.00	0.00	0.00	0.00	699		3
0.00	0.00	0.00	0.00	751		4
----RACE					----	
0.00	0.00	0.00	0.00	308		MINORITY
0.00	0.00	0.00	0.00	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
0.00	0.00	0.00	0.00	1,060		LOW
0.00	0.00	0.00	0.00	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
0.00	0.00	0.00	0.00	171		MINORITY LOW
0.00	0.00	0.00	0.00	862		NON-MINORITY LOW
0.00	0.00	0.00	0.00	137		MINORITY NON-LOW
0.00	0.00	0.00	0.00	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM 116

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
82.69	1.47			2,973	ALL STUDENTS
----SEX OF THE STUDENT ----					
76.77	0.71	-5.92*	0.50	1,389	MALE
89.37	0.58	6.68*	0.52	1,559	FEMALE
----SIZE OF THE COMMUNITY ----					
77.78	0.92	-4.91*	1.12	572	1
85.41	1.12	2.72*	0.54	951	2
85.13	0.72	2.44*	0.69	699	3
80.87	0.69	-1.82*	0.60	751	4
----RACE ----					
69.17	0.94	-13.52*	0.60	308	MINORITY
85.31	0.73	2.62*	0.15	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
76.22	0.62	-6.47*	0.54	1,060	LOW
86.21	0.58	3.52*	0.30	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
67.67	0.76	-15.02*	1.08	171	MINORITY LOW
80.52	0.65	-2.17*	0.54	862	NON-MINORITY LOW
70.96	1.43	-11.73*	0.67	137	MINORITY NON-LOW
87.56	0.61	4.87*	0.35	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #17

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
87.39	1.04			2,973	ALL STUDENTS
----SEX OF THE STUDENT ----					
88.24	0.26	0.85*	0.16	1,389	MALE
88.03	0.31	0.64*	0.24	1,559	FEMALE
----SIZE OF THE COMMUNITY ----					
85.36	0.71	-2.03*	0.48	572	1
88.72	0.32	1.33*	0.24	951	2
88.56	0.38	1.17*	0.18	699	3
86.17	0.21	-1.22*	0.21	751	4
----RACE ----					
82.13	0.49	-5.26*	0.43	308	MINORITY
88.91	0.27	1.52*	0.05	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
85.29	0.33	-2.10*	0.30	1,060	LOW
88.53	0.23	1.14*	0.11	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
80.82	0.27	-6.57*	0.61	171	MINORITY LOW
88.85	0.27	1.46*	0.19	862	NON-MINORITY LOW
83.70	0.24	-3.69*	0.57	137	MINORITY NON-LOW
88.95	0.31	1.56*	0.12	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE ENGLISH"

ITEM #18

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
40,29	1,24			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
37,27	0,43	-3,02*	0,41	1,389		MALE
43,70	0,49	3,41*	0,45	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
38,85	0,67	-1,44	0,92	572		1
38,81	0,89	-1,48*	0,70	951		2
44,59	0,79	4,30*	0,86	699		3
39,58	0,57	-0,71	0,71	751		4
----RACE					----	
35,36	0,67	-4,93*	0,73	308		MINORITY
41,40	0,51	1,11*	0,17	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
35,98	0,50	-4,31*	0,36	1,060		LOW
42,63	0,56	2,34*	0,32	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
30,98	0,63	-9,31*	1,10	171		MINORITY LOW
38,25	0,54	-2,04*	0,38	862		NON-MINORITY LOW
40,61	0,24	0,32	1,17	137		MINORITY NON-LOW
42,88	0,52	2,59*	0,37	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE ,05 LEVEL

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"12TH GRADE ENGLISH"

ITEM #19

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
49.73	2.25			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
46.13	0.63	-3.60*	0.42	1,389	MALE
53.74	0.64	4.01*	0.63	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
47.35	1.61	-2.38*	1.05	572	1
52.08	1.19	2.35*	0.75	951	2
49.06	0.77	-0.67	0.40	699	3
49.12	0.71	-0.61	0.58	751	4
----RACE					----
40.28	0.64	-9.45*	1.58	308	MINORITY
51.40	0.71	1.67*	0.17	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
43.06	0.87	-6.67*	0.50	1,060	LOW
53.35	0.62	3.62*	0.28	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
40.00	0.53	-9.73*	0.94	171	MINORITY LOW
44.95	0.85	-4.78*	0.60	862	NON-MINORITY LOW
40.62	0.63	-9.11*	1.83	137	MINORITY NON-LOW
54.43	0.56	4.70*	0.35	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #20

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
48.92	1.83			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
44.84	0.34	-4.08*	0.05	1,389	MALE
53.44	0.29	4.52*	0.08	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
45.67	0.21	-3.25*	0.09	572	1
49.99	0.23	1.07*	0.05	951	2
51.33	0.21	2.41*	0.07	699	3
47.99	0.26	-0.93*	0.09	751	4
----RACE					----
37.86	0.05	-11.06*	0.09	308	MINORITY
50.99	0.34	2.07*	0.01	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
43.97	0.37	-4.95*	0.05	1,060	LOW
51.61	0.27	2.69*	0.03	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
36.87	0.08	-12.05*	0.09	171	MINORITY LOW
47.12	0.36	-1.80*	0.04	862	NON-MINORITY LOW
39.05	0.01	-9.87*	0.16	137	MINORITY NON-LOW
52.81	0.34	3.89*	0.03	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #21

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
47.13	1.19			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
45.53	0.33	-1.60*	0.26	1,389		MALE
49.30	0.37	2.17*	0.29	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
43.44	0.94	-3.69*	0.48	572		1
50.57	0.49	3.44*	0.40	951		2
47.23	0.57	0.10	0.83	699		3
45.42	0.32	-1.71*	0.42	751		4
----RACE					----	
36.11	0.61	-11.02*	0.47	308		MINORITY
49.13	0.38	2.00*	0.11	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
39.50	0.42	-7.63*	0.31	1,060		LOW
51.29	0.27	4.16*	0.22	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
31.01	0.55	-16.12*	0.53	171		MINORITY LOW
42.65	0.47	-4.48*	0.37	862		NON-MINORITY LOW
42.22	0.95	-4.91*	1.28	137		MINORITY NON-LOW
52.17	0.31	5.04*	0.26	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM :22

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
42.31	1.62			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
40.04	0.63	-2.27*	0.38	1,389		MALE
45.08	0.77	2.77*	0.74	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
42.54	1.16	0.23	0.90	572		1
38.25	1.22	-4.06*	0.48	951		2
46.43	0.78	4.12*	1.00	699		3
43.97	0.62	1.66*	0.52	751		4
----RACE					----	
44.44	0.66	2.13	1.15	308		MINORITY
42.45	0.86	0.14	0.19	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
41.50	0.62	-0.81	0.63	1,060		LOW
42.75	0.91	0.44	0.30	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
43.59	0.39	1.28	1.08	171		MINORITY LOW
42.19	0.60	-0.12	0.55	862		NON-MINORITY LOW
45.45	1.08	3.14*	1.37	137		MINORITY NON-LOW
42.57	0.97	0.26	0.32	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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"12TH GRADE ENGLISH"

ITEM #23

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
65.13	2.22			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
58.43	0.89	-6.70*	0.42	1,389	MALE
72.29	0.63	7.16*	0.45	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
65.72	1.48	0.59	0.96	572	1
71.59	0.95	6.46*	0.83	951	2
63.33	0.88	-1.80*	0.77	699	3
57.12	0.83	-8.01*	0.86	751	4
----RACE					----
49.90	1.56	-15.23*	0.42	308	MINORITY
67.78	0.54	2.65*	0.18	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
51.86	0.59	-13.27*	0.42	1,060	LOW
72.35	0.64	7.22*	0.28	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
40.18	0.84	-24.95*	1.83	171	MINORITY LOW
56.06	0.74	-9.07*	0.52	862	NON-MINORITY LOW
61.55	0.80	-3.58*	0.94	137	MINORITY NON-LOW
73.28	0.59	8.15*	0.32	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

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ITEM :24

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
33.12	1.90			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
33.04	0.42	-0.08	0.22	1,389		MALE
33.76	0.24	0.64*	0.15	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
31.97	0.39	-1.15*	0.33	572		1
36.14	0.51	3.02*	0.19	951		2
32.71	0.44	-0.41	0.32	699		3
30.22	0.39	-2.90*	0.24	751		4
----RACE					----	
30.97	0.28	-2.15*	0.31	308		MINORITY
33.77	0.36	0.65*	0.08	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
30.38	0.23	-2.74*	0.21	1,060		LOW
34.61	0.39	1.49*	0.11	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
29.27	0.17	-3.85*	0.69	171		MINORITY LOW
31.56	0.34	-1.56*	0.20	862		NON-MINORITY LOW
33.01	0.40	-0.11	0.42	137		MINORITY NON-LOW
34.80	0.46	1.68*	0.14	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #25

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
47.76	1.05			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
43.14	0.47	-4.62*	0.33	1,389		MALE
52.67	0.39	4.91*	0.37	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
43.18	0.47	-4.58*	0.96	572		1
51.65	0.73	3.89*	0.55	951		2
50.77	0.41	3.01*	0.82	699		3
43.43	0.60	-4.33*	0.83	751		4
----RACE					----	
30.56	0.65	-17.20*	0.58	308		MINORITY
50.45	0.40	2.69*	0.14	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
38.87	0.39	-8.89*	0.31	1,060		LOW
52.60	0.51	4.84*	0.24	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
29.41	0.53	-18.35*	1.05	171		MINORITY LOW
42.08	0.44	-5.68*	0.44	862		NON-MINORITY LOW
31.94	0.29	-15.82*	1.64	137		MINORITY NON-LOW
54.38	0.42	6.62*	0.27	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #26

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
79.93	1.71			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
76.72	0.49	-3.21*	0.30	1,389		MALE
84.10	0.62	4.17*	0.53	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
77.99	1.30	-1.94*	0.95	572		1
81.92	0.70	1.99*	0.49	951		2
79.87	0.66	-0.06	0.44	699		3
78.85	0.45	-1.08*	0.42	751		4
----RACE					----	
71.22	0.63	-8.71*	0.81	308		MINORITY
81.82	0.49	1.89*	0.15	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
74.43	0.55	-5.50*	0.62	1,060		LOW
82.91	0.55	2.98*	0.22	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
66.56	0.69	-13.37*	0.54	171		MINORITY LOW
78.39	0.57	-1.54*	0.37	862		NON-MINORITY LOW
76.81	0.75	-3.12*	0.54	137		MINORITY NON-LOW
83.43	0.52	3.50*	0.26	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

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ITEM #27

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
0.00	0.00			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
0.00	0.00	0.00	0.00	1,389		MALE
0.00	0.00	0.00	0.00	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
0.00	0.00	0.00	0.00	572		1
0.00	0.00	0.00	0.00	951		2
0.00	0.00	0.00	0.00	699		3
0.00	0.00	0.00	0.00	751		4
----RACE					----	
0.00	0.00	0.00	0.00	308		MINORITY
0.00	0.00	0.00	0.00	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
0.00	0.00	0.00	0.00	1,060		LOW
0.00	0.00	0.00	0.00	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
0.00	0.00	0.00	0.00	171		MINORITY LOW
0.00	0.00	0.00	0.00	862		NON-MINORITY LOW
0.00	0.00	0.00	0.00	137		MINORITY NON-LOW
0.00	0.00	0.00	0.00	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #28

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
37.12	1.92			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
38.10	0.36	0.98*	0.22	1,389		MALE
36.86	0.46	-0.26	0.30	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
34.95	0.69	-2.17*	0.31	572		1
37.72	0.47	0.60	0.37	951		2
38.45	0.47	1.33*	0.36	699		3
36.92	0.57	-0.20	0.53	751		4
----RACE					----	
34.24	0.69	-2.88*	0.57	308		MINORITY
37.90	0.49	0.78*	0.08	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
33.32	0.51	-3.80*	0.20	1,060		LOW
39.18	0.36	2.06*	0.18	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
28.74	0.16	-8.38*	0.86	171		MINORITY LOW
35.37	0.59	-1.75*	0.20	862		NON-MINORITY LOW
40.83	0.66	3.71*	0.85	137		MINORITY NON-LOW
39.09	0.36	1.97*	0.19	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM 129

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
33.27	1.50			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
26.72	0.57	-6.55*	0.34	1,389	MALE
39.66	0.55	6.39*	0.50	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
31.42	0.21	-1.85*	0.76	572	1
33.30	0.65	0.03	0.49	951	2
36.71	0.52	3.44*	0.76	699	3
31.61	0.69	-1.66*	0.52	751	4
----RACE					----
20.84	0.64	-12.43*	0.56	308	MINORITY
35.24	0.52	1.97*	0.16	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
28.78	0.46	-4.49*	0.33	1,060	LOW
35.71	0.48	2.44*	0.27	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
22.54	0.33	-10.73*	1.04	171	MINORITY LOW
30.91	0.55	-2.36*	0.42	862	NON-MINORITY LOW
18.79	0.30	-14.48*	1.54	137	MINORITY NON-LOW
37.28	0.60	4.01*	0.31	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM :30

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
45.08	2.00			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
45.92	0.82	0.84*	0.37	1,389	MALE
45.01	0.66	-0.07	0.56	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
38.37	0.88	-6.71*	0.89	572	1
45.57	1.00	0.49	0.61	951	2
50.99	0.90	5.91*	0.65	699	3
44.72	0.51	-0.36	0.78	751	4
----RACE					----
33.23	1.00	-11.85*	0.86	308	MINORITY
47.11	0.71	2.03*	0.15	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
40.57	0.64	-4.51*	0.46	1,060	LOW
47.53	0.74	2.45*	0.37	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
34.97	1.81	-10.11*	0.60	171	MINORITY LOW
42.96	0.77	-2.12*	0.49	862	NON-MINORITY LOW
31.15	0.76	-13.93*	0.75	137	MINORITY NON-LOW
49.07	0.72	3.99*	0.40	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM :31

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
22.48	0.53			2,973	ALL STUDENTS
----SEX OF THE STUDENT				----	
22.19	0.17	-0.29*	0.14	1,389	MALE
23.13	0.20	0.65*	0.18	1,559	FEMALE
----SIZE OF THE COMMUNITY				----	
20.63	0.25	-1.85*	0.31	572	1
24.91	0.28	2.43*	0.32	951	2
24.48	0.30	2.00*	0.39	699	3
18.75	0.17	-3.73*	0.31	751	4
----RACE				----	
12.45	0.31	-10.03*	0.18	308	MINORITY
24.05	0.15	1.57*	0.06	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS				----	
15.83	0.16	-6.65*	0.13	1,060	LOW
26.09	0.19	3.61*	0.15	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS				----	
12.22	0.28	-10.26*	0.32	171	MINORITY LOW
17.06	0.20	-5.42*	0.12	862	NON-MINORITY LOW
12.73	0.33	-9.75*	0.20	137	MINORITY NON-LOW
27.33	0.19	4.85*	0.17	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM 132

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
56.32	2.27			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
51.37	0.48	-4.95*	0.41	1,389		MALE
61.75	0.42	5.43*	0.39	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
52.40	0.98	-3.92*	0.64	572		1
56.38	0.75	0.06	0.51	951		2
57.87	0.98	1.55*	0.16	699		3
58.27	0.56	1.95*	0.43	751		4
----RACE					----	
41.56	1.02	-14.76*	0.83	308		MINORITY
58.84	0.61	2.52*	0.12	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
50.64	0.59	-5.68*	0.34	1,060		LOW
59.42	0.36	3.10*	0.21	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
38.89	1.10	-17.43*	1.23	171		MINORITY LOW
54.96	0.45	-1.36*	0.34	862		NON-MINORITY LOW
44.76	0.42	-11.56*	1.00	137		MINORITY NON-LOW
60.67	0.46	4.35*	0.22	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #33

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
50.01	0.84			2,973	ALL STUDENTS
----SEX OF THE STUDENT ----					
47.74	0.53	-2.27*	0.33	1,389	MALE
52.91	0.55	2.90*	0.53	1,559	FEMALE
----SIZE OF THE COMMUNITY ----					
49.58	0.84	-0.43	0.65	572	1
52.08	0.80	2.07*	0.44	951	2
49.45	0.67	-0.56	0.91	699	3
47.97	0.87	-2.04*	0.87	751	4
----RACE ----					
41.35	0.85	-8.66*	0.54	308	MINORITY
51.63	0.44	1.62*	0.17	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
43.85	0.66	-6.16*	0.47	1,060	LOW
53.36	0.49	3.35*	0.30	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
38.35	0.79	-11.66*	0.83	171	MINORITY LOW
46.48	0.57	-3.53*	0.44	862	NON-MINORITY LOW
44.94	1.25	-5.07*	0.54	137	MINORITY NON-LOW
54.04	0.50	4.03*	0.32	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM :34

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE		REPORTING GROUP
85.28	0.73			2,973		ALL STUDENTS
----SEX OF THE STUDENT					----	
83.38	0.64	-1.90*	0.37	1,389		MALE
88.46	0.47	3.18*	0.45	1,559		FEMALE
----SIZE OF THE COMMUNITY					----	
79.33	1.43	-5.95*	0.66	572		1
88.00	1.03	2.72*	0.56	951		2
88.00	0.77	2.72*	0.48	699		3
84.12	0.67	-1.16	0.78	751		4
----RACE					----	
73.78	1.37	-11.50*	0.87	308		MINORITY
87.67	0.63	2.39*	0.16	2,637		NON-MINORITY
----SOCIO-ECONOMIC STATUS					----	
80.69	0.87	-4.59*	0.61	1,060		LOW
87.78	0.62	2.50*	0.24	1,913		NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----	
71.39	0.68	-13.89*	1.11	171		MINORITY LOW
85.35	0.52	0.07	0.66	862		NON-MINORITY LOW
76.63	1.70	-8.65*	1.35	137		MINORITY NON-LOW
88.76	0.64	3.48*	0.31	1,775		NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #35

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
78.11	0.22			2,973	ALL STUDENTS
----SEX OF THE STUDENT					----
77.31	0.25	-0.80*	0.19	1,389	MALE
80.06	0.20	1.97*	0.20	1,559	FEMALE
----SIZE OF THE COMMUNITY					----
76.46	0.65	-1.65*	0.49	572	1
79.36	0.28	1.25*	0.34	951	2
79.39	0.33	1.28*	0.29	699	3
76.58	0.22	-1.53*	0.38	751	4
----RACE					----
68.31	0.85	-9.80*	0.61	308	MINORITY
80.23	0.22	2.12*	0.06	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS					----
72.52	0.28	-5.59*	0.31	1,060	LOW
81.15	0.25	3.04*	0.12	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS					----
66.77	0.39	-11.34*	0.40	171	MINORITY LOW
75.93	0.20	-2.18*	0.29	862	NON-MINORITY LOW
70.16	0.63	-7.95*	0.20	137	MINORITY NON-LOW
82.25	0.29	4.14*	0.14	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

ITEM #36

P-VALUE	SE OF P-VALUE	GROUP EFFECT	SE OF EFFECT	SAMPLE SIZE	REPORTING GROUP
62.86	0.37			2,973	ALL STUDENTS
----SEX OF THE STUDENT ----					
60.84	0.40	-2.02*	0.28	1,389	MALE
65.77	0.52	2.91*	0.52	1,559	FEMALE
----SIZE OF THE COMMUNITY ----					
57.10	1.14	-5.76*	0.79	572	1
65.92	0.58	3.06*	0.57	951	2
64.26	0.58	1.40*	0.48	699	3
62.31	0.46	-0.55	0.37	751	4
----RACE ----					
50.08	0.90	-12.78*	0.50	308	MINORITY
65.15	0.37	2.29*	0.12	2,637	NON-MINORITY
----SOCIO-ECONOMIC STATUS ----					
59.32	0.41	-3.54*	0.40	1,060	LOW
64.79	0.32	1.93*	0.25	1,913	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS ----					
47.64	0.70	-15.22*	1.43	171	MINORITY LOW
63.78	0.49	0.92*	0.37	862	NON-MINORITY LOW
53.00	0.56	-9.86*	0.90	137	MINORITY NON-LOW
65.80	0.33	2.94*	0.24	1,775	NON-MINORITY NON-LOW

* INDICATES A STATISTICALLY SIGNIFICANT GROUP EFFECT AT THE .05 LEVEL

APPENDIX C

PERFORMANCE ESTIMATES FOR ITEMS

As discussed in Chapter III, a panel of Ohio educators reviewed the items for each test and provided three performance estimate ratings for each item. First, reviewers gave an estimate of the *minimum expected performance* level for each item. This was given in terms of the percentage of students answering the item correctly. Second, reviewers gave what they felt to be the *desired performance* level for each item. Lastly, reviewers gave a *predicted performance* level for each item. As with the first rating, these latter two were also expressed in terms of the percentage of students responding correctly to a single item.

The following tables provide the reviewers' ratings for each test item of each test. These data when averaged provided ratings for each objective which were presented in the reporting chapter. Ratings which were significantly different ($P \leq .05$) from the students' actual scores have been marked with an asterisk (*).

The following tables are included:

Fourth-Grade Mathematics

Twelfth-Grade Mathematics

Twelfth-Grade Science

Twelfth-Grade English Composition

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

PERFORMANCE ESTIMATES COMPARED WITH ACTUAL STUDENT PERFORMANCE,
--REPORTED BY ITEM--
"4TH GRADE MATH"

ITEM NUMBER	MINIMUM EXPECTED SCORES			DESIRED SCORES			PREDICTED SCORES			ACTUAL STUDENTS SCORES	
	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE
1	73.03	1.48	21.65*	92.21	0.93	2.47	81.72	1.02	12.96*	94.68	1.46
2	68.90	1.59	23.26*	87.72	1.24	4.44*	75.79	1.24	16.37*	92.16	0.66
3	68.55	1.54	23.10*	87.93	1.08	3.72	76.14	1.14	15.51*	91.65	0.96
4	63.03	1.48	12.63*	84.14	1.13	-8.48*	69.17	1.17	6.49*	75.66	0.87
5	63.03	1.50	10.76*	83.93	1.14	-10.14*	68.55	1.18	5.24*	73.79	0.65
6	60.83	1.50	5.25	82.28	1.14	-16.20*	65.52	1.15	0.56	66.08	1.11
7	65.79	1.51	21.93*	85.93	1.14	1.79	72.83	1.22	14.89*	87.72	0.55
8	68.41	1.60	23.87*	87.03	1.38	5.25	76.76	1.20	15.52*	92.28	1.17
9	65.24	1.48	20.80*	84.90	1.07	1.14	71.52	1.17	14.52*	86.04	0.98
10	61.38	1.61	13.62*	82.28	1.23	-7.28*	68.55	1.40	6.45*	75.00	1.31
11	57.10	1.58	14.89*	79.03	1.28	-7.04*	63.38	1.40	8.61*	71.99	0.22
12	55.86	1.72	14.60*	76.97	1.53	-6.51	62.07	1.52	8.39*	70.46	1.24
13	73.31	1.60	18.16*	89.86	1.28	1.61	80.00	1.36	11.47*	91.47	0.87
14	69.45	1.63	-4.93	88.55	1.13	-24.03*	75.45	1.29	-10.93*	64.52	1.05
15	75.31	1.67	16.95*	91.72	1.05	0.54	83.31	1.14	8.95*	92.26	0.52
16	71.10	1.71	15.69*	87.59	1.40	-0.80	77.93	1.43	8.86*	86.79	0.85
17	53.45	1.58	-4.03	76.21	1.24	-26.79*	59.03	1.34	-9.61*	49.42	1.15
18	49.45	1.72	-0.21	70.76	1.58	-21.52*	54.76	1.63	-5.52	49.24	0.67
19	49.52	1.68	-3.29	69.93	1.61	-23.70*	53.66	1.65	-7.43	46.23	1.37
20	48.55	1.57	8.84*	69.03	1.57	-11.64*	52.48	1.55	4.91	57.39	0.98
21	48.34	1.56	8.44*	68.76	1.55	-11.98*	52.48	1.53	4.30	56.78	1.36
22	64.21	1.55	19.30*	84.90	1.22	-1.39	69.66	1.30	13.85*	83.51	0.98
23	54.00	1.55	26.74*	76.62	1.32	4.12	60.62	1.39	20.12*	80.74	0.58
24	67.31	1.67	11.23*	86.48	1.29	-7.94*	76.14	1.46	2.40	78.54	1.05
25	73.93	1.62	18.34*	91.52	1.04	0.75	81.52	1.22	10.75*	92.27	0.72
26	41.10	1.66	-0.61	65.52	1.64	-25.03*	43.66	1.49	-3.17	40.49	0.60
27	66.76	1.62	20.62*	86.00	1.24	1.38	74.00	1.44	13.38*	87.38	1.41
28	57.66	1.76	14.94*	78.34	1.49	-5.74	64.28	1.70	8.32*	72.60	1.15
29	56.34	1.71	10.50*	78.76	1.47	-11.92*	63.45	1.50	3.39	66.84	0.78
30	71.52	1.60	-5.68	90.41	1.09	-24.57*	76.69	1.25	-10.85*	65.84	1.08
31	69.66	1.59	21.79*	88.90	1.28	2.55	74.90	1.39	16.55*	91.45	1.07
32	66.83	1.56	6.90*	86.55	1.16	-12.82*	73.86	1.28	-0.13	73.73	0.76
33	51.38	1.50	16.93*	74.41	1.25	-6.10*	57.24	1.44	11.07*	68.31	1.05
34	62.69	1.66	24.57*	84.14	1.34	3.12	66.83	1.48	20.43*	87.26	1.21
35	58.41	1.66	8.77*	81.10	1.25	-13.92*	62.76	1.28	4.42*	67.18	0.40
36	50.69	1.60	12.08*	75.17	1.33	-12.40*	56.34	1.47	6.43*	62.77	0.96
37	59.66	1.66	20.30*	81.93	1.29	-1.97	66.83	1.24	13.13*	79.96	1.35
38	66.28	1.68	23.68*	87.86	1.24	2.10	74.34	1.38	15.62*	89.96	0.89

* DIFFERENCE IS STATISTICALLY SIGNIFICANT AT P </= .05 LEVEL

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

PERFORMANCE ESTIMATES COMPARED WITH ACTUAL STUDENT PERFORMANCE.
--REPORTED BY ITEM--
"4TH GRADE MATH"

ITEM NUMBER	MINIMUM EXPECTED SCORES			DESIRED SCORES			PREDICTED SCORES			ACTUAL STUDENTS SCORES	
	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE
39	38.83	1.58	10.39*	64.76	1.75	-15.54*	40.28	1.61	8.94*	49.22	0.70
40	52.55	1.67	13.03*	76.76	1.44	-11.18*	57.17	1.40	8.41*	65.58	1.41
41	62.69	1.69	-10.60*	85.79	1.23	-33.70*	67.66	1.32	-15.57*	52.09	0.61
42	56.07	1.58	-14.75*	78.41	1.37	-37.09*	60.62	1.39	-19.30*	41.32	0.67
43	69.45	1.62	19.77*	89.10	1.24	0.12	77.52	1.37	11.70*	89.22	0.73
44	73.17	1.57	18.39*	92.48	0.99	-0.92	81.45	1.14	10.11*	91.56	1.52
45	58.41	1.71	12.86*	80.07	1.53	-8.80*	65.24	1.53	6.03	71.27	1.36
46	60.00	1.58	23.28*	81.03	1.34	2.25	65.52	1.49	17.76*	83.28	1.42
47	67.52	1.60	20.07*	87.93	1.23	-0.34	74.76	1.31	12.83*	87.59	0.85
48	64.21	1.61	21.30*	85.93	1.14	-0.42	73.45	1.26	12.06*	85.51	0.95
49	62.28	1.70	11.83*	83.66	1.36	-9.55*	69.38	1.40	4.73	74.11	1.11
50	64.55	1.62	19.69*	88.00	1.09	-3.76*	72.76	1.20	11.48*	84.24	0.28
51	65.38	1.68	19.29*	87.59	1.27	-2.92	74.55	1.22	10.12*	84.67	1.13
52	75.24	1.59	17.54*	93.52	0.96	-0.74	83.86	1.14	8.92*	92.78	0.68
53	58.21	1.54	-0.41	81.45	1.33	-23.65*	64.41	1.34	-6.61*	57.80	1.09
54	59.93	1.52	4.74	83.10	1.22	-18.43*	66.34	1.35	-1.67	64.67	0.79
55	52.21	1.65	17.62*	77.31	1.40	-7.48*	58.55	1.51	11.28*	69.83	0.74
56	50.55	1.67	-32.30*	75.24	1.31	-56.99*	54.48	1.28	-36.23*	18.25	1.27
57	50.83	1.66	9.25*	74.90	1.44	-14.82*	56.07	1.41	4.01	60.08	1.34
58	61.86	1.60	6.95	84.83	1.37	-16.02*	70.48	1.43	-1.67	68.81	1.13

* DIFFERENCE IS STATISTICALLY SIGNIFICANT AT P </= .05 LEVEL

OHIO DEPARTME[illegible]F EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

PERFORMANCE ESTIMATES COMPARED WITH ACTUAL STUDENT PERFORMANCE.
--REPORTED BY ITEM--
"12TH GRADE MATH"

ITEM NUMBER	MINIMUM EXPECTED SCORES			DESIRED SCORES			PREDICTED SCORES			ACTUAL STUDENTS SCORES	
	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE
1	83.06	1.11	9.06*	96.74	0.50	-4.62*	86.60	0.75	5.52*	92.12	1.34
2	77.78	1.35	17.18*	94.03	0.70	0.93	82.22	0.95	12.74*	94.96	1.01
3	79.03	1.32	4.67	93.61	0.93	-9.91*	81.25	1.08	2.45	83.70	1.21
4	80.97	1.14	14.77*	94.79	0.62	0.95	83.61	0.84	12.13*	95.74	0.65
5	79.51	1.21	13.60*	93.89	0.62	-0.78	82.85	0.82	10.26*	93.11	1.50
6	78.54	1.24	14.86*	93.19	0.69	0.21	80.76	0.87	12.64*	93.40	1.54
7	76.32	1.30	0.42	92.15	0.73	-15.41*	77.57	1.03	-0.83	76.74	1.14
8	77.78	1.31	16.05*	92.64	0.73	1.19	79.17	1.07	14.66*	93.83	0.51
9	67.01	1.32	20.35*	86.39	0.89	0.97	69.38	1.14	17.98*	87.36	0.69
10	68.68	1.54	16.84*	85.69	1.16	-0.17	72.43	1.30	13.09*	85.52	1.25
11	67.01	1.59	-35.91*	84.51	1.37	-53.41*	68.40	1.49	-37.30*	31.10	1.55
12	51.25	1.37	26.66*	73.68	1.15	4.23	53.40	1.27	24.51*	77.91	0.85
13	67.85	1.43	22.17*	85.90	1.03	4.12	69.79	1.18	20.23*	90.02	1.57
14	73.54	1.44	23.10*	89.65	0.89	6.99*	78.13	1.13	18.51*	96.64	1.19
15	67.08	1.41	11.91*	86.25	0.88	-7.26*	67.92	1.15	11.07*	78.99	0.72
16	69.10	1.36	22.36*	87.15	0.91	4.31	71.25	1.13	20.21*	91.46	1.37
17	68.19	1.37	15.17*	86.46	1.14	-3.10	69.72	1.26	13.64*	83.36	0.82
18	67.99	1.35	15.78*	85.97	1.02	-2.20	68.61	1.13	15.16*	83.77	1.17
19	64.24	1.40	7.09*	83.33	1.09	-12.00*	61.39	1.22	9.94*	71.33	0.69
20	64.31	1.37	-1.84	83.40	1.04	-20.93*	61.74	1.21	0.73	62.47	1.72
21	64.93	1.48	4.24	85.07	0.94	-15.90*	63.75	1.24	5.42*	69.17	0.66
22	62.92	1.40	9.75*	82.08	1.01	-9.41*	61.39	1.17	11.28*	72.67	1.58
23	63.13	1.43	12.75*	81.94	1.18	-6.06*	62.15	1.23	13.73*	75.88	1.06
24	67.92	1.32	5.66*	86.11	0.92	-12.53*	71.18	1.10	2.40	73.58	0.76
25	67.15	1.40	3.61	84.44	1.25	-13.68*	69.24	1.32	1.52	70.76	1.16
26	68.54	1.32	25.38*	86.46	0.88	7.46*	72.29	1.18	21.63*	93.92	1.67
27	61.25	1.37	9.00*	81.39	1.07	-11.14*	60.69	1.26	9.56*	70.25	1.66
28	59.24	1.32	-8.99*	79.86	1.04	-29.61*	57.85	1.23	-7.60*	50.25	1.49
29	65.69	1.27	2.02	85.35	0.91	-17.64*	67.01	1.11	0.70	67.71	1.60
30	58.19	1.42	-11.95*	79.58	1.28	-33.34*	56.81	1.28	-10.57*	46.24	1.42
31	59.51	1.44	-5.28	80.56	1.05	-26.33*	57.36	1.28	-3.13	54.23	1.31
32	63.82	1.44	7.84*	84.24	0.86	-12.58*	63.13	1.20	8.53*	71.66	1.68
33	64.03	1.34	8.82*	84.10	0.96	-11.25*	66.18	1.33	6.67*	72.85	1.10
34	72.43	1.33	15.01*	89.44	1.13	-2.00	75.83	1.25	11.61*	87.44	1.82
35	69.51	1.24	24.00*	86.88	0.91	6.63*	71.11	1.19	22.40*	93.51	1.56
36	50.90	1.50	21.83*	73.68	1.20	-0.95	51.74	1.39	20.99*	72.73	1.84
37	74.44	1.20	19.74*	90.63	0.76	3.55*	77.71	0.96	16.47*	94.18	0.89
38	68.75	1.35	23.41*	87.15	1.09	5.01	71.94	1.24	20.22*	92.16	1.49

* DIFFERENCE IS STATISTICALLY SIGNIFICANT AT P </= .05 LEVEL

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

PERFORMANCE ESTIMATES COMPARED WITH ACTUAL STUDENT PERFORMANCE, --REPORTED BY ITEM-- "12TH GRADE MATH"

ITEM NUMBER	MINIMUM EXPECTED SCORES			DESIRED SCORES			PREDICTED SCORES			ACTUAL STUDENTS SCORES	
	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE
39	63.47	1.49	22.28*	81.67	1.14	4.08	63.33	1.22	22.42*	85.75	1.56
40	59.44	1.33	-14.44*	80.97	1.05	-35.97*	58.75	1.22	-13.75*	45.00	1.64
41	78.75	1.21	2.45	94.03	0.67	-12.83*	82.50	1.03	-1.30	81.20	1.26
42	67.64	1.34	16.07*	87.01	0.92	-3.30	69.10	1.30	14.61*	83.71	1.42
43	76.60	1.33	9.16*	92.15	0.95	-6.39*	80.35	1.11	5.41*	85.76	1.39
44	61.94	1.24	19.06*	82.36	0.97	-1.36	63.54	1.31	17.46*	81.00	1.00
45	69.24	1.33	19.75*	86.88	1.10	2.11	72.57	1.30	16.42*	88.99	1.84
46	59.24	1.57	10.81*	81.81	1.12	-11.76*	58.61	1.39	11.44*	70.05	1.73
47	59.03	1.69	15.49*	81.25	1.26	-6.73*	58.40	1.47	16.12*	74.52	0.26
48	65.56	1.42	-8.57*	85.00	1.11	-28.01*	68.96	1.46	-11.97*	56.99	1.21
49	59.03	1.47	31.73*	80.97	1.14	9.79*	62.57	1.39	28.19*	90.76	0.98
50	63.06	1.56	-33.63*	83.54	1.11	-54.11*	64.03	1.46	-34.60*	29.43	1.92
51	73.75	1.42	20.48*	91.39	0.82	2.84	79.38	1.09	14.85*	94.23	1.09
52	65.42	1.43	10.81*	85.42	1.14	-9.19*	66.39	1.26	9.84*	76.23	2.00
53	72.08	1.47	-1.26	89.93	1.10	-19.11*	76.25	1.26	-5.43	70.82	1.83
54	63.19	1.28	21.78*	84.03	0.92	0.94	65.97	1.26	19.00*	84.97	1.41
55	62.29	1.57	27.19*	83.75	1.08	5.73	66.60	1.35	22.88*	89.48	1.95
56	54.79	1.42	-14.59*	78.40	1.19	-38.20*	53.61	1.29	-13.41*	40.20	1.24
57	60.56	1.39	12.90*	82.85	1.21	-9.39*	64.10	1.33	9.36*	73.46	1.42
58	72.36	1.42	8.73*	90.90	1.07	-9.81*	77.50	1.30	-3.59	81.09	0.98
59	67.85	1.40	24.10*	86.81	1.10	5.14	71.25	1.26	20.70*	91.95	1.59
60	60.90	1.36	20.35*	83.54	1.16	-2.29	63.06	1.45	18.19*	81.25	1.89
61	73.96	1.41	15.10*	92.57	0.99	-3.51	75.63	1.40	13.43*	89.06	1.84
62	61.04	1.44	4.50	82.50	1.04	-16.96*	59.72	1.22	5.82*	65.54	0.65
63	71.88	1.50	19.12*	90.28	1.08	0.72	77.99	1.36	13.01*	91.00	2.03
64	64.79	1.42	3.19	85.21	1.10	-17.23*	65.42	1.17	2.56	67.98	1.98
65	55.83	1.50	17.99*	78.82	1.16	-5.00	54.93	1.36	18.89*	73.82	2.07
66	69.79	1.42	21.45*	88.13	1.34	3.11	73.68	1.56	17.56*	91.24	0.49
67	64.65	1.33	30.19*	85.28	1.13	9.56*	68.19	1.41	26.65*	94.84	1.13
68	74.65	1.33	14.47*	92.92	0.97	-3.80	77.92	1.33	11.20*	89.12	1.93
69	62.43	1.26	20.23*	83.40	1.13	-0.74	64.72	1.31	17.94*	82.66	0.64
70	67.92	1.37	19.01*	88.40	1.03	-1.47	72.01	1.21	14.92*	86.93	0.98

* DIFFERENCE IS STATISTICALLY SIGNIFICANT AT P </= .05 LEVEL

OHIO DEPARTME[illegible]F EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

PERFORMANCE ESTIMATES COMPARED
WITH ACTUAL STUDENT PERFORMANCE,
--REPORTED BY ITEM--
"12TH GRADE SCIENCE"

ITEM NUMBER	MINIMUM EXPECTED SCORES			DESIRED SCORES			PREDICTED SCORES			ACTUAL STUDENTS SCORES	
	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE
1	56.39	1.28	31.18*	82.71	1.05	4.86*	68.20	1.16	19.37*	87.57	1.21
2	46.54	1.46	34.58*	71.43	1.75	9.69*	57.74	1.50	23.38*	81.12	1.49
3	48.05	1.51	13.58*	73.83	1.41	-12.20*	59.70	1.35	1.93	61.63	1.32
4	49.55	1.38	16.43*	74.59	1.35	-8.61*	59.32	1.35	6.66*	65.98	1.23
5	45.49	1.36	-5.10	70.68	1.38	-30.29*	54.14	1.35	-13.75*	40.39	1.97
6	46.24	1.35	-25.77*	71.58	1.28	-51.11*	54.89	1.32	-34.42*	20.47	1.17
7	53.53	1.36	7.02*	76.84	1.54	-16.29*	61.88	1.63	-1.33	60.55	0.42
8	60.30	1.45	34.36*	84.06	1.30	10.60*	70.23	1.52	24.43*	94.66	0.49
9	54.44	1.39	10.41*	79.40	1.32	-14.55*	65.19	1.25	-0.34	64.85	0.51
10	59.92	1.60	18.93*	83.46	1.35	-4.61*	70.83	1.43	8.02*	78.85	0.44
11	44.21	1.52	-4.17	69.32	1.60	-29.28*	53.08	1.62	-13.04*	40.04	0.87
12	48.12	1.30	5.16*	73.01	1.41	-19.73*	56.32	1.37	-3.04	53.28	0.52
13	53.91	1.32	19.96*	79.47	1.30	-5.60*	64.89	1.26	8.98*	73.87	0.48
14	49.70	1.71	12.06*	75.86	1.69	-14.10*	58.42	1.65	3.34	61.76	0.45
15	42.41	1.49	-7.03*	69.32	1.42	-33.94*	50.15	1.58	-14.77*	35.38	0.43
16	58.50	1.40	36.09*	85.64	1.21	8.95*	66.92	1.54	27.67*	94.59	0.78
17	61.05	1.69	20.26*	85.56	1.50	-4.25	70.38	1.53	10.93*	81.31	1.01
18	49.85	1.45	-7.36*	74.96	1.32	-32.47*	57.44	1.49	-14.95*	42.49	0.60
19	48.50	1.48	-3.97	73.46	1.44	-28.93*	55.34	1.35	-10.81*	44.53	1.08
20	48.57	1.73	3.88	71.05	1.84	-18.60*	58.95	1.77	-6.50	52.45	0.99
21	56.32	1.30	-35.32*	81.05	1.30	-60.05*	63.16	1.35	-42.16*	21.00	0.37
22	41.13	1.40	25.36*	66.24	1.56	0.25	47.82	1.51	18.67*	66.49	0.39
23	48.72	1.55	-3.68	73.31	1.56	-28.27*	54.59	1.57	-9.55*	45.04	1.03
24	39.25	1.60	-24.88*	64.36	1.65	-49.99*	43.83	1.69	-29.46*	14.37	1.12
25	45.26	1.64	34.45*	70.53	1.69	9.18*	51.73	1.82	27.98*	79.71	0.79
26	38.12	1.46	23.96*	63.31	1.56	-1.23	43.01	1.56	19.07*	62.08	0.86
27	50.38	1.44	10.50*	75.94	1.49	-15.06*	59.62	1.65	1.26	60.88	0.63
28	52.63	1.45	24.72*	76.09	1.57	1.26	60.23	1.58	17.12*	77.35	1.33
29	44.29	1.46	24.36*	70.98	1.49	-2.33	50.45	1.46	18.20*	68.65	1.32
30	48.87	1.26	30.81*	74.14	1.30	5.54	54.89	1.39	24.79*	79.68	1.27
31	47.14	1.38	17.44*	73.16	1.43	-8.58*	56.09	1.38	8.49*	64.58	1.31
32	52.71	1.40	-25.40*	78.57	1.46	-51.26*	62.11	1.53	-34.80*	27.31	0.82
33	52.11	1.70	0.09	76.02	1.77	-23.82*	62.03	1.83	-9.83*	52.20	1.03
34	56.54	1.54	18.25*	80.75	1.37	-5.96*	65.11	1.77	9.68*	74.79	0.67
35	55.64	1.51	20.39*	81.50	1.20	-5.47*	66.39	1.34	9.64*	76.03	0.80
36	52.93	1.34	-2.37	78.42	1.34	-27.86*	61.88	1.47	-11.32*	50.56	1.34
37	64.74	1.45	-4.51	90.98	0.98	-30.78*	74.06	1.28	-13.86*	60.20	0.76
38	64.96	1.45	17.74*	91.80	0.92	-9.10*	71.28	1.47	11.42*	82.70	0.76

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OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

PERFORMANCE ESTIMATES COMPARED WITH ACTUAL STUDENT PERFORMANCE,
--REPORTED BY ITEM--
"12TH GRADE SCIENCE"

ITEM NUMBER	MINIMUM EXPECTED SCORES			DESIRED SCORES			PREDICTED SCORES			ACTUAL STUDENTS SCORES	
	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE
39	49.85	1.47	5.38	76.09	1.32	-20.86*	57.22	1.33	-1.99	55.23	0.95
40	52.93	1.77	6.35	76.69	1.69	-17.41*	62.33	1.72	-3.05	59.28	1.41
41	50.98	1.52	-9.43*	78.12	1.46	-36.57*	60.00	1.62	-18.45*	41.55	1.26
42	63.31	1.63	19.46*	88.27	1.25	-5.50*	71.58	1.57	11.19*	82.77	0.89
43	46.47	1.50	10.25*	71.73	1.57	-15.01*	55.41	1.52	1.31	56.72	1.14
44	53.31	1.60	12.56*	79.70	1.29	-13.83*	62.33	1.47	3.54	65.87	1.18
45	45.79	1.46	19.97*	70.15	1.41	-4.39	53.98	1.39	11.78*	65.76	1.49
46	54.21	1.44	26.01*	80.45	1.45	-0.23	62.78	1.42	17.44*	80.22	0.93
47	51.13	1.33	16.68*	76.17	1.39	-8.36*	60.00	1.48	7.81*	67.81	1.23
48	47.59	1.33	4.61	71.95	1.48	-19.75*	54.66	1.51	-2.46	52.20	1.38
49	53.68	1.46	22.70*	79.70	1.25	-3.32	61.73	1.45	14.65*	76.38	1.61
50	48.72	1.42	11.11*	74.66	1.50	-14.83*	57.44	1.52	2.39	59.83	1.90
51	52.71	1.42	13.41*	77.44	1.60	-11.32*	61.43	1.70	4.69	66.12	0.85
52	59.70	1.46	15.61*	84.29	1.18	-8.98*	70.60	1.38	4.71	75.31	2.06
53	42.78	1.85	23.80*	66.32	2.11	0.26	51.20	1.95	15.38*	66.58	0.80

* DIFFERENCE IS STATISTICALLY SIGNIFICANT AT P <\= .05 LEVEL

OHIO DEPARTMEN EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

PERFORMANCE ESTIMATES COMPARED WITH ACTUAL STUDENT PERFORMANCE,
--REPORTED BY ITEM--
"12TH GRADE ENGLISH"

ITEM NUMBER	MINIMUM EXPECTED SCORES			DESIRED SCORES			PREDICTED SCORES			ACTUAL STUDENTS SCORES	
	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE	DIFFERENCE	MEAN	SE
1	48.00	1.42	-12.43*	77.71	1.27	-42.14*	55.79	1.36	-20.22*	35.57	0.39
2	48.57	1.26	38.50*	76.43	1.00	10.64*	55.50	1.26	31.57*	87.07	2.05
3	43.14	1.40	-10.40*	71.64	1.27	-38.90*	48.21	1.32	-15.47*	32.74	1.94
4	50.57	1.39	35.57*	78.64	1.05	7.50*	58.07	1.35	28.07*	86.14	1.99
5	61.93	1.43	9.52*	86.50	1.09	-15.05*	69.07	1.25	2.38	71.45	1.68
6	47.71	1.42	17.92*	74.79	1.28	-9.16*	53.21	1.40	12.42*	65.63	0.44
7	47.29	1.53	-24.62*	72.14	1.57	-49.47*	51.93	1.57	-29.26*	22.67	2.03
8	63.14	1.49	21.28*	88.07	0.84	-3.65	67.36	1.10	17.06*	84.42	1.34
9	64.93	1.54	24.96*	88.00	1.37	1.89	70.64	1.38	19.25*	89.89	1.39
10	57.07	1.51	14.42*	82.71	1.11	-11.22*	62.21	1.29	9.28*	71.49	1.70
11	54.64	1.51	8.29	83.00	1.03	-20.07*	60.00	1.28	2.93	62.93	2.02
12	54.64	1.47	16.15*	82.29	1.01	-11.50*	60.36	1.22	10.43*	70.79	1.10
13	52.79	1.50	-15.18*	81.07	1.09	-43.46*	57.86	1.31	-20.25*	37.61	1.79
14	61.57	1.53	7.01	87.50	1.07	-18.92*	66.93	1.24	1.65	68.58	1.46
15	51.14	1.55	-51.14*	78.93	1.35	-78.93*	55.36	1.42	-55.36*	0.00	0.00
16	57.00	1.48	25.69*	84.43	0.94	-1.74	62.36	1.24	20.33*	82.69	1.47
17	45.36	1.59	42.03*	71.50	1.28	15.89*	50.43	1.51	36.96*	87.39	1.04
18	52.50	1.51	-12.21*	80.00	1.26	-39.71*	60.21	1.48	-19.92*	40.29	1.24
19	44.71	1.60	5.02	71.79	1.67	-22.06*	48.57	1.57	1.16	49.73	2.25
20	55.93	1.57	-7.01	83.21	1.32	-34.29*	62.50	1.35	-13.58*	48.92	1.83
21	51.50	1.49	-4.37	80.79	1.16	-33.66*	56.43	1.36	-9.30*	47.13	1.19
22	43.86	1.63	-1.55	72.00	1.51	-29.69*	46.50	1.50	-4.19	42.31	1.62
23	55.43	1.48	9.70*	84.64	0.93	-19.51*	59.50	1.41	5.63	65.13	2.22
24	42.79	1.51	-9.67*	72.07	1.35	-38.95*	47.36	1.41	-14.24*	33.12	1.90
25	44.79	1.52	2.97	74.00	1.23	-26.24*	46.29	1.36	1.47	47.76	1.05
26	54.29	1.56	25.64*	83.93	1.04	-4.00	60.07	1.26	19.86*	79.93	1.71
27	43.79	1.59	-43.79*	72.50	1.56	-72.50*	47.07	1.55	-47.07*	0.00	0.00
28	46.29	1.60	-9.17*	74.14	1.60	-37.02*	48.57	1.49	-11.45*	37.12	1.92
29	48.57	1.63	-15.30*	76.71	1.40	-43.44*	52.50	1.37	-19.23*	33.27	1.50
30	44.57	1.47	0.51	73.50	1.33	-28.42*	44.57	1.41	0.51	45.08	2.00
31	46.57	1.39	-24.09*	75.71	1.04	-53.23*	49.93	1.38	-27.45*	22.48	0.53
32	55.14	1.53	1.18	83.93	1.22	-27.61*	59.50	1.50	-3.18	56.32	2.27
33	45.79	1.60	4.22	72.79	1.62	-22.78*	49.14	1.52	0.87	50.01	0.84
34	45.71	1.52	39.57*	72.64	1.34	12.64*	50.29	1.45	34.99*	85.28	0.73
35	46.29	1.53	31.82*	73.29	1.29	4.82*	51.86	1.48	26.25*	78.11	0.22
36	43.21	1.54	19.65*	69.29	1.50	-6.43*	46.86	1.53	16.00*	62.86	0.37

* DIFFERENCE IS STATISTICALLY SIGNIFICANT AT P </= .05 LEVEL

APPENDIX D

DISTRIBUTIONS OF STUDENTS' PERFORMANCE LEVELS - OBJECTIVES AND TOTAL TESTS

Objective Scores

While the average percentage correct for each objective gives some indication of the level of performance, much more information can be gleaned by looking at the distribution of objective scores. Such distributions are included in this appendix for each objective of each of the four tests.

In each table, the "Objective Score" column indicates the possible objective scores in percentage terms. For example, if an objective has four items, the possible scores for the objective would be 0 (none correct), 25 (one correct), 50 (two correct), 75 (three correct) and 100 (all correct).

The "Absolute Frequency" shows the actual number of students in the sample that received the respective scores in the first column. The "Relative Frequency" in column three indicates the percentage of the total sample represented by the numbers in the second column. The "Cumulative Frequency" is simply a cumulation of column three. The figures in the fifth, sixth and seventh columns represent similar data using the frequencies in the "Absolute Frequency" column weighted by their respective sampling weights. These "weighted" columns would thus theoretically represent the distribution of objective scores if all eligible students at the grade level in question had taken the test. The standard deviation at the bottom is the standard deviation of the distribution. The standard error is the standard error of the mean of the distribution.

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                OHIO STATEWIDE ASSESSMENT - SPRING 1978

                          "4TH GRADE MATH"

        FREQUENCY DISTRIBUTION OF OBJECTIVE  1 SCORES - ALL STUDENTS

                                                            WEIGHTED  CUMULATIVE
 OBJECTIVE            RELATIVE  CUMULATIVE  WEIGHTED   RELATIVE    WEIGHTED
   SCORE    ABSOLUTE  FREQUENCY  FREQUENCY  ABSOLUTE   FREQUENCY   FREQUENCY
 (PERCENT)  FREQUENCY (PERCENT)  (PERCENT)  FREQUENCY  (PERCENT)   (PERCENT)
 --------- --------- ---------  --------- --------- ---------  ----------
     0          55       1.69       1.60      2,534      1.68        1.60
    33          79       2.42       4.00      3,759      2.50        4.10
    66         362      11.12      15.10     17,177     11.43       15.50
   100        2757      84.90     100.00    126,812     84.52      100.00
 TOTAL        3253     100.00               150,283    100.00

  MEAN =  92.89    STANDARD DEVIATION =  18.65    STANDARD ERROR = 0.326


        FREQUENCY DISTRIBUTION OF OBJECTIVE  2 SCORES - ALL STUDENTS

                                                            WEIGHTED  CUMULATIVE
 OBJECTIVE            RELATIVE  CUMULATIVE  WEIGHTED   RELATIVE    WEIGHTED
   SCORE    ABSOLUTE  FREQUENCY  FREQUENCY  ABSOLUTE   FREQUENCY   FREQUENCY
 (PERCENT)  FREQUENCY (PERCENT)  (PERCENT)  FREQUENCY  (PERCENT)   (PERCENT)
 --------- --------- ---------  --------- --------- ---------  ----------
     0         444      13.64      13.60     20,457     13.61       13.60
    33         360      11.06      24.60     16,630     11.06       24.60
    66         713      21.91      46.50     32,285     21.48       46.00
   100        1736      53.50     100.00     80,909     54.00      100.00
 TOTAL        3253     100.00               150,283    100.00

  MEAN =  71.48    STANDARD DEVIATION =  35.77    STANDARD ERROR = 0.627


        FREQUENCY DISTRIBUTION OF OBJECTIVE  3 SCORES - ALL STUDENTS

                                                            WEIGHTED  CUMULATIVE
 OBJECTIVE            RELATIVE  CUMULATIVE  WEIGHTED   RELATIVE    WEIGHTED
   SCORE    ABSOLUTE  FREQUENCY  FREQUENCY  ABSOLUTE   FREQUENCY   FREQUENCY
 (PERCENT)  FREQUENCY (PERCENT)  (PERCENT)  FREQUENCY  (PERCENT)   (PERCENT)
 --------- --------- ---------  --------- --------- ---------  ----------
     0         109       3.35       3.30      5,057      3.36        3.30
    33         155       4.79       8.00      7,228      4.80        8.10
    66         465      14.29      22.20     21,382     14.22       22.30
   100        2523      77.80     100.00    116,615     77.70      100.00
 TOTAL        3253     100.00               150,283    100.00

  MEAN =  88.57    STANDARD DEVIATION =  23.93    STANDARD ERROR = 0.419
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"4TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 4 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	458	14.07	14.00	20,897	13.90	13.90
33	478	14.69	28.60	21,506	14.37	28.20
66	392	12.05	40.60	18,129	12.06	40.20
100	1925	59.40	100.00	89,649	59.80	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 71.97 STANDARD DEVIATION = 37.44 STANDARD ERROR = 0.656

FREQUENCY DISTRIBUTION OF OBJECTIVE 5 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	275	8.45	8.40	12,805	8.52	8.50
100	2978	91.60	100.00	137,477	91.50	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 91.54 STANDARD DEVIATION = 27.81 STANDARD ERROR = 0.487

FREQUENCY DISTRIBUTION OF OBJECTIVE 6 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	452	13.89	13.80	20,569	13.68	13.60
50	1278	39.26	53.00	59,042	39.28	52.80
100	1523	47.00	100.00	70,671	47.20	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 66.46 STANDARD DEVIATION = 35.31 STANDARD ERROR = 0.619

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                          "4TH GRADE MATH"

      FREQUENCY DISTRIBUTION OF OBJECTIVE  7 SCORES - ALL STUDENTS

                                                          WEIGHTED  CUMULATIVE
 OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED   RELATIVE    WEIGHTED
   SCORE    ABSOLUTE  FREQUENCY   FREQUENCY  ABSOLUTE   FREQUENCY   FREQUENCY
 (PERCENT)  FREQUENCY (PERCENT)   (PERCENT)  FREQUENCY  (PERCENT)   (PERCENT)
 ---------  --------- ---------   ---------  ---------  ---------  ----------
     0         112       3.44        3.40       5,010       3.33        3.30
    50         466      14.32       17.70      21,455      14.27       17.50
   100        2675      82.23      100.00     123,817      82.39      100.00
 TOTAL        3253     100.00                 150,283     100.00

  MEAN =  89.39     STANDARD DEVIATION =  24.28     STANDARD ERROR = 0.425


      FREQUENCY DISTRIBUTION OF OBJECTIVE  8 SCORES - ALL STUDENTS

                                                          WEIGHTED  CUMULATIVE
 OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED   RELATIVE    WEIGHTED
   SCORE    ABSOLUTE  FREQUENCY   FREQUENCY  ABSOLUTE   FREQUENCY   FREQUENCY
 (PERCENT)  FREQUENCY (PERCENT)   (PERCENT)  FREQUENCY  (PERCENT)   (PERCENT)
 ---------  --------- ---------   ---------  ---------  ---------  ----------
     0        1655      50.87       50.80      76,001      50.57       50.50
   100        1598      49.12      100.00      74,281      49.43      100.00
 TOTAL        3253     100.00                 150,283     100.00

  MEAN =  49.12     STANDARD DEVIATION =  49.99     STANDARD ERROR = 0.876


      FREQUENCY DISTRIBUTION OF OBJECTIVE  9 SCORES - ALL STUDENTS

                                                          WEIGHTED  CUMULATIVE
 OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED   RELATIVE    WEIGHTED
   SCORE    ABSOLUTE  FREQUENCY   FREQUENCY  ABSOLUTE   FREQUENCY   FREQUENCY
 (PERCENT)  FREQUENCY (PERCENT)   (PERCENT)  FREQUENCY  (PERCENT)   (PERCENT)
 ---------  --------- ---------   ---------  ---------  ---------  ----------
     0        1538      47.27       47.20      70,128      46.66       46.60
    50         368      11.31       58.50      16,831      11.20       57.80
   100        1347      41.41      100.00      63,322      42.13      100.00
 TOTAL        3253     100.00                 150,283     100.00

  MEAN =  47.06     STANDARD DEVIATION =  46.99     STANDARD ERROR = 0.823
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"4TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 10 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1119	34.39	34.30	50,839	33.82	33.80
50	596	18.32	52.60	27,292	18.16	51.90
100	1538	47.40	100.00	72,151	48.10	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 56.44 STANDARD DEVIATION = 44.72 STANDARD ERROR = 0.784

FREQUENCY DISTRIBUTION OF OBJECTIVE 11 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	321	9.86	9.80	14,669	9.76	9.70
50	767	23.57	33.30	34,912	23.23	32.90
100	2165	66.70	100.00	100,701	67.10	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 78.34 STANDARD DEVIATION = 33.27 STANDARD ERROR = 0.583

FREQUENCY DISTRIBUTION OF OBJECTIVE 12 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	646	19.85	19.80	28,930	19.25	19.20
100	2607	80.20	100.00	121,352	80.80	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 80.14 STANDARD DEVIATION = 39.89 STANDARD ERROR = 0.699

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                            "4TH GRADE MATH"

        FREQUENCY DISTRIBUTION OF OBJECTIVE 13 SCORES - ALL STUDENTS

                                                          WEIGHTED  CUMULATIVE
OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED  RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY   FREQUENCY  ABSOLUTE  FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY  (PERCENT)   (PERCENT)  FREQUENCY (PERCENT)   (PERCENT)
--------- --------- ---------   --------- --------- ---------   ---------
    0        1050      32.27       32.20     47,622     31.68       31.60
   100       2203      67.80      100.00    102,661     68.40      100.00
  TOTAL      3253     100.00                150,283    100.00

  MEAN =  67.72     STANDARD DEVIATION =  46.75     STANDARD ERROR = 0.819

        FREQUENCY DISTRIBUTION OF OBJECTIVE 14 SCORES - ALL STUDENTS

                                                          WEIGHTED  CUMULATIVE
OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED  RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY   FREQUENCY  ABSOLUTE  FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY  (PERCENT)   (PERCENT)  FREQUENCY (PERCENT)   (PERCENT)
--------- --------- ---------   --------- --------- ---------   ---------
    0         708      21.76       21.70     32,238     21.45       21.40
   100       2545      78.30      100.00    118,045     78.60      100.00
  TOTAL      3253     100.00                150,283    100.00

  MEAN =  78.23     STANDARD DEVIATION =  41.26     STANDARD ERROR = 0.723

        FREQUENCY DISTRIBUTION OF OBJECTIVE 15 SCORES - ALL STUDENTS

                                                          WEIGHTED  CUMULATIVE
OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED  RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY   FREQUENCY  ABSOLUTE  FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY  (PERCENT)   (PERCENT)  FREQUENCY (PERCENT)   (PERCENT)
--------- --------- ---------   --------- --------- ---------   ---------
    0          84       2.58        2.50      3,867      2.57        2.50
   50         413      12.69       15.10     18,945     12.60       15.10
   100       2756      84.90      100.00    127,470     84.90      100.00
  TOTAL      3253     100.00                150,283    100.00

  MEAN =  91.95     STANDARD DEVIATION =  22.26     STANDARD ERROR = 0.390
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"4TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 16 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1159	35.62	35.60	53,037	35.29	35.20
50	1298	39.90	75.50	59,658	39.69	74.80
100	796	24.47	100.00	37,587	25.02	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 44.42 STANDARD DEVIATION = 39.35 STANDARD ERROR = 0.672

FREQUENCY DISTRIBUTION OF OBJECTIVE 17 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	183	5.62	5.60	8,372	5.57	5.50
50	598	18.38	23.90	27,337	18.19	23.60
100	2472	76.00	100.00	114,574	76.24	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 85.19 STANDARD DEVIATION = 28.32 STANDARD ERROR = 0.496

FREQUENCY DISTRIBUTION OF OBJECTIVE 18 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	682	20.96	20.90	31,330	20.84	20.80
50	1450	44.57	65.40	66,692	44.37	65.10
100	1121	34.46	100.00	52,261	34.79	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 56.75 STANDARD DEVIATION = 36.60 STANDARD ERROR = 0.641

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"4TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 19 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	671	20.62	20.60	30,366	20.20	20.20
50	708	21.76	42.30	32,257	21.46	41.60
100	1874	57.70	100.00	87,659	58.40	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 68.49 STANDARD DEVIATION = 40.17 STANDARD ERROR = 0.704

FREQUENCY DISTRIBUTION OF OBJECTIVE 20 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	796	24.46	24.40	36,644	24.38	24.30
50	1095	33.66	58.00	50,036	33.29	57.50
100	1362	42.00	100.00	63,602	42.50	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 58.69 STANDARD DEVIATION = 39.78 STANDARD ERROR = 0.697

FREQUENCY DISTRIBUTION OF OBJECTIVE 21 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	83	2.55	2.50	3,898	2.59	2.50
50	383	11.77	14.20	17,714	11.78	14.20
100	2787	85.80	100.00	128,670	85.80	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 91.56 STANDARD DEVIATION = 21.86 STANDARD ERROR = 0.383

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"4TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 22 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	409	12.57	12.50	19,141	12.73	12.70
100	2844	87.52	100.00	131,141	87.30	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 87.42 STANDARD DEVIATION = 33.15 STANDARD ERROR = 0.581

FREQUENCY DISTRIBUTION OF OBJECTIVE 23 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	630	19.36	19.30	28,952	19.26	19.20
50	936	28.77	48.00	43,130	28.69	47.80
100	1687	52.00	100.00	78,201	52.20	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 66.24 STANDARD DEVIATION = 38.94 STANDARD ERROR = 0.682

FREQUENCY DISTRIBUTION OF OBJECTIVE 24 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	422	12.97	12.90	19,259	12.81	12.80
50	1038	31.90	44.80	47,529	31.62	44.40
100	1793	55.20	100.00	83,495	55.60	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 71.07 STANDARD DEVIATION = 35.47 STANDARD ERROR = 0.621

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 25 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	166	5.10	5.10	7,359	4.89	4.80
50	445	13.67	18.70	20,106	13.37	18.10
100	2642	81.32	100.00	122,817	81.90	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 88.05 STANDARD DEVIATION = 26.63 STANDARD ERROR = 0.466

FREQUENCY DISTRIBUTION OF OBJECTIVE 26 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	477	14.66	14.60	21,775	14.48	14.40
100	2776	85.40	100.00	128,508	85.60	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 85.33 STANDARD DEVIATION = 35.37 STANDARD ERROR = 0.620

FREQUENCY DISTRIBUTION OF OBJECTIVE 27 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	158	4.85	4.80	7,327	4.87	4.80
50	770	23.67	28.40	35,098	23.35	28.10
100	2325	71.62	100.00	107,857	71.90	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 83.30 STANDARD DEVIATION = 28.26 STANDARD ERROR = 0.495

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                        OHIO DEPARTMENT OF EDUCATION
                    DIVISION OF PLANNING AND EVALUATION

                 OHIO STATEWIDE ASSESSMENT - SPRING 1978

                             "4TH GRADE MATH"

         FREQUENCY DISTRIBUTION OF OBJECTIVE 28 SCORES - ALL STUDENTS

                                                        WEIGHTED  CUMULATIVE
OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED    RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY  FREQUENCY  ABSOLUTE   FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY  (PERCENT)  (PERCENT)  FREQUENCY  (PERCENT)   (PERCENT)
--------- --------- ---------  ---------  ---------  ---------  ----------
    0        233       7.16       7.10      10,664       7.09        7.00
   50        548      16.84      23.90      25,379      16.88       23.80
   100      2472      76.11     100.00     114,239      76.22      100.00
TOTAL       3253     100.00                150,283     100.00

  MEAN =  84.41    STANDARD DEVIATION =  29.90    STANDARD ERROR = 0.524


         FREQUENCY DISTRIBUTION OF OBJECTIVE 29 SCORES - ALL STUDENTS

                                                        WEIGHTED  CUMULATIVE
OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED    RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY  FREQUENCY  ABSOLUTE   FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY  (PERCENT)  (PERCENT)  FREQUENCY  (PERCENT)   (PERCENT)
--------- --------- ---------  ---------  ---------  ---------  ----------
    0        788      24.22      24.20      36,247      24.11       24.10
   50        953      29.29      53.40      43,996      29.27       53.30
   100      1512      46.60     100.00      70,039      46.70      100.00
TOTAL       3253     100.00                150,283     100.00

  MEAN =  61.12    STANDARD DEVIATION =  40.54    STANDARD ERROR = 0.710


         FREQUENCY DISTRIBUTION OF OBJECTIVE 30 SCORES - ALL STUDENTS

                                                        WEIGHTED  CUMULATIVE
OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED    RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY  FREQUENCY  ABSOLUTE   FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY  (PERCENT)  (PERCENT)  FREQUENCY  (PERCENT)   (PERCENT)
--------- --------- ---------  ---------  ---------  ---------  ----------
    0        988      30.37      30.30      45,326      30.16       30.10
   100      2265      69.70     100.00     104,957      69.90      100.00
TOTAL       3253     100.00                150,283     100.00

  MEAN =  69.62    STANDARD DEVIATION =  45.98    STANDARD ERROR = 0.806
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"4TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 31 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1097	33.72	33.70	50,876	33.85	33.80
50	1755	53.95	87.60	81,083	53.95	87.70
100	401	12.40	100.00	18,324	12.10	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 39.30   STANDARD DEVIATION = 32.19   STANDARD ERROR = 0.564

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OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 1 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	31	1.07	1.00	1,807	1.08	1.00
50	307	10.63	11.60	17,863	10.73	11.70
100	2549	88.40	100.00	146,697	88.30	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 93.60 STANDARD DEVIATION = 18.23 STANDARD ERROR = 0.339

FREQUENCY DISTRIBUTION OF OBJECTIVE 2 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	65	2.25	2.20	3,983	2.39	2.30
50	459	15.89	18.00	26,211	15.75	18.00
100	2363	82.00	100.00	136,174	82.00	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 89.79 STANDARD DEVIATION = 22.77 STANDARD ERROR = 0.423

FREQUENCY DISTRIBUTION OF OBJECTIVE 3 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	58	2.00	2.00	3,510	2.11	2.10
50	269	9.31	11.30	15,404	9.25	11.30
100	2560	88.70	100.00	147,453	88.70	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 93.33 STANDARD DEVIATION = 19.73 STANDARD ERROR = 0.367

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"12TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 4 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	125	4.32	4.30	7,385	4.43	4.40
50	597	20.67	24.90	34,160	20.53	24.90
100	2165	75.10	100.00	124,821	75.10	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 85.33 STANDARD DEVIATION = 27.10 STANDARD ERROR = 0.504

FREQUENCY DISTRIBUTION OF OBJECTIVE 5 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	40	1.38	1.30	2,308	1.38	1.30
33	99	3.42	4.70	6,049	3.63	4.90
66	441	15.27	19.90	25,813	15.51	20.40
100	2307	80.10	100.00	132,197	79.60	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 91.12 STANDARD DEVIATION = 19.45 STANDARD ERROR = 0.361

FREQUENCY DISTRIBUTION OF OBJECTIVE 6 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	352	12.19	12.10	20,803	12.50	12.50
50	1690	58.53	70.60	97,092	58.35	70.80
100	845	29.41	100.00	48,472	29.20	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 58.53 STANDARD DEVIATION = 31.04 STANDARD ERROR = 0.577

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"12TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 7 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	289	10.01	10.00	17,003	10.22	10.20
50	832	28.81	38.80	48,093	28.90	39.10
100	1766	61.20	100.00	101,271	60.90	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 75.58 STANDARD DEVIATION = 33.54 STANDARD ERROR = 0.624

FREQUENCY DISTRIBUTION OF OBJECTIVE 8 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	92	3.18	3.10	5,578	3.35	3.30
100	2795	96.90	100.00	160,790	96.70	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 96.81 STANDARD DEVIATION = 17.56 STANDARD ERROR = 0.326

FREQUENCY DISTRIBUTION OF OBJECTIVE 9 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	53	1.83	1.80	3,151	1.89	1.80
50	343	11.88	13.60	19,957	11.99	13.70
100	2491	86.40	100.00	143,259	86.30	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 92.22 STANDARD DEVIATION = 20.49 STANDARD ERROR = 0.381

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"12TH GRADE MATH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 10 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	162	5.61	5.60	9,577	5.75	5.70
50	506	17.52	23.10	30,001	18.03	23.70
100	2219	76.90	100.00	126,789	76.30	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 85.62 STANDARD DEVIATION = 28.15 STANDARD ERROR = 0.523

FREQUENCY DISTRIBUTION OF OBJECTIVE 11 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	247	8.55	8.50	14,173	8.51	8.50
50	448	15.51	24.00	26,319	15.81	24.30
100	2192	76.00	100.00	125,876	75.70	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 83.68 STANDARD DEVIATION = 31.26 STANDARD ERROR = 0.581

FREQUENCY DISTRIBUTION OF OBJECTIVE 12 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	594	20.57	20.50	35,085	21.08	21.00
50	692	23.96	44.40	39,941	24.00	45.00
100	1601	55.60	100.00	91,341	55.00	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 67.44 STANDARD DEVIATION = 39.95 STANDARD ERROR = 0.743

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FREQUENCY DISTRIBUTION OF OBJECTIVE 13 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	402	13.92	13.90	23,704	14.24	14.20
50	0	0.00	13.90	0	0.00	14.20
100	2485	86.10	100.00	142,663	85.80	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 86.07 STANDARD DEVIATION = 34.62 STANDARD ERROR = 0.644

FREQUENCY DISTRIBUTION OF OBJECTIVE 14 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	712	24.66	24.60	41,954	25.21	25.20
100	1954	75.40	100.00	111,575	74.80	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 71.51 STANDARD DEVIATION = 42.96 STANDARD ERROR = 0.799

FREQUENCY DISTRIBUTION OF OBJECTIVE 15 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	680	23.55	23.50	40,119	24.11	24.10
50	0	0.00	23.50	0	0.00	24.10
100	2207	76.50	100.00	126,249	75.90	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 76.44 STANDARD DEVIATION = 42.43 STANDARD ERROR = 0.789

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FREQUENCY DISTRIBUTION OF OBJECTIVE 16 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	545	22.34	22.30	38,078	22.88	22.80
100	1968	77.70	100.00	111,873	77.20	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 72.91 STANDARD DEVIATION = 41.68 STANDARD ERROR = 0.775

FREQUENCY DISTRIBUTION OF OBJECTIVE 17 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	252	8.72	8.70	14,964	8.99	8.90
100	2635	91.30	100.00	151,404	91.10	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 91.27 STANDARD DEVIATION = 28.22 STANDARD ERROR = 0.525

FREQUENCY DISTRIBUTION OF OBJECTIVE 18 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	165	5.71	5.70	10,110	6.07	6.00
100	2722	94.30	100.00	156,258	94.00	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 94.28 STANDARD DEVIATION = 23.21 STANDARD ERROR = 0.431

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FREQUENCY DISTRIBUTION OF OBJECTIVE 19 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	835	28.92	28.90	49,486	29.74	29.70
50	0	0.00	28.90	0	0.00	29.70
100	2052	71.10	100.00	116,882	70.30	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 71.07 STANDARD DEVIATION = 45.34 STANDARD ERROR = 0.843

FREQUENCY DISTRIBUTION OF OBJECTIVE 20 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	694	24.03	24.00	41,326	24.84	24.80
100	1262	76.00	100.00	71,227	75.20	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 59.92 STANDARD DEVIATION = 39.99 STANDARD ERROR = 0.744

FREQUENCY DISTRIBUTION OF OBJECTIVE 21 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1543	53.44	53.40	89,434	53.75	53.70
50	0	0.00	53.40	0	0.00	53.70
100	1344	46.60	100.00	76,933	46.30	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 46.55 STANDARD DEVIATION = 49.88 STANDARD ERROR = 0.928

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FREQUENCY DISTRIBUTION OF OBJECTIVE 22 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	520	18.01	18.00	30,782	18.50	18.50
50	1212	41.98	59.90	69,467	41.75	60.20
100	1155	40.10	100.00	66,118	39.80	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 60.99 STANDARD DEVIATION = 36.46 STANDARD ERROR = 0.678

FREQUENCY DISTRIBUTION OF OBJECTIVE 23 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	582	20.15	20.10	34,389	20.67	20.60
100	1379	79.90	100.00	77,477	79.40	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 63.80 STANDARD DEVIATION = 38.82 STANDARD ERROR = 0.722

FREQUENCY DISTRIBUTION OF OBJECTIVE 24 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	773	26.77	26.70	45,156	27.14	27.10
50	0	0.00	26.70	0	0.00	27.10
100	2114	73.30	100.00	121,211	72.90	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 73.22 STANDARD DEVIATION = 44.27 STANDARD ERROR = 0.823

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FREQUENCY DISTRIBUTION OF OBJECTIVE 25 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	219	7.58	7.50	13,410	8.06	8.00
50	718	24.97	32.30	42,605	25.60	33.60
100	1950	67.70	100.00	110,352	66.40	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 79.97   STANDARD DEVIATION = 31.29   STANDARD ERROR = 0.582

FREQUENCY DISTRIBUTION OF OBJECTIVE 26 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	57	1.97	1.90	3,888	2.33	2.30
50	553	19.15	21.00	33,070	19.87	22.10
100	2277	79.00	100.00	129,409	77.90	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 88.44   STANDARD DEVIATION = 23.29   STANDARD ERROR = 0.433

FREQUENCY DISTRIBUTION OF OBJECTIVE 27 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	277	9.59	9.50	16,776	10.08	10.00
100	1950	90.50	100.00	110,754	90.00	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 78.97   STANDARD DEVIATION = 32.99   STANDARD ERROR = 0.613

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        FREQUENCY DISTRIBUTION OF OBJECTIVE 28 SCORES - ALL STUDENTS

                                                          WEIGHTED  CUMULATIVE
OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED  RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY   FREQUENCY  ABSOLUTE  FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY  (PERCENT)   (PERCENT)  FREQUENCY (PERCENT)   (PERCENT)
--------- ---------  ---------   ---------  --------- ---------  ----------
    0          962       33.32       33.30     57,326     34.45       34.40
   50            0        0.00       33.30          0      0.00       34.40
  100         1925       66.70      100.00    109,041     65.60      100.00
 TOTAL        2887      100.00               166,368    100.00

  MEAN =  66.67    STANDARD DEVIATION =  47.13    STANDARD ERROR = 0.877


        FREQUENCY DISTRIBUTION OF OBJECTIVE 29 SCORES - ALL STUDENTS

                                                          WEIGHTED  CUMULATIVE
OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED  RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY   FREQUENCY  ABSOLUTE  FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY  (PERCENT)   (PERCENT)  FREQUENCY (PERCENT)   (PERCENT)
--------- ---------  ---------   ---------  --------- ---------  ----------
    0          139        4.81        4.80      8,273      4.97        4.90
   50          588       20.36       25.10     34,223     20.57       25.40
  100         2160       74.90      100.00    123,871     74.60      100.00
 TOTAL        2887      100.00               166,368    100.00

  MEAN =  85.00    STANDARD DEVIATION =  27.67    STANDARD ERROR = 0.514


        FREQUENCY DISTRIBUTION OF OBJECTIVE 30 SCORES - ALL STUDENTS

                                                          WEIGHTED  CUMULATIVE
OBJECTIVE             RELATIVE  CUMULATIVE  WEIGHTED  RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY   FREQUENCY  ABSOLUTE  FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY  (PERCENT)   (PERCENT)  FREQUENCY (PERCENT)   (PERCENT)
--------- ---------  ---------   ---------  --------- ---------  ----------
    0          233        8.07        8.00     14,164      8.51        8.50
   50          473       16.38       24.30     28,258     16.98       25.40
  100         2181       75.70      100.00    123,945     74.60      100.00
 TOTAL        2887      100.00               166,368    100.00

  MEAN =  83.73    STANDARD DEVIATION =  30.85    STANDARD ERROR = 0.574
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FREQUENCY DISTRIBUTION OF OBJECTIVE 31 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	146	5.05	5.00	8,858	5.32	5.30
50	862	29.85	34.80	50,416	30.30	35.60
100	1879	65.20	100.00	107,093	64.40	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 80.01 STANDARD DEVIATION = 29.20 STANDARD ERROR = 0.543

FREQUENCY DISTRIBUTION OF OBJECTIVE 32 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	113	3.91	3.90	7,012	4.21	4.20
100	1990	96.10	100.00	113,500	95.80	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 82.50 STANDARD DEVIATION = 27.64 STANDARD ERROR = 0.514

FREQUENCY DISTRIBUTION OF OBJECTIVE 33 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1224	42.39	42.30	71,546	43.00	43.00
100	1663	57.70	100.00	94,822	57.00	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 57.60 STANDARD DEVIATION = 49.41 STANDARD ERROR = 0.919

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FREQUENCY DISTRIBUTION OF OBJECTIVE 34 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	259	8.97	8.90	15,356	9.23	9.20
100	2628	91.10	100.00	151,011	90.80	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 91.02   STANDARD DEVIATION = 28.57   STANDARD ERROR = 0.531

FREQUENCY DISTRIBUTION OF OBJECTIVE 35 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	894	30.96	30.90	53,260	32.01	32.00
50	0	0.00	30.90	0	0.00	32.00
100	1993	69.10	100.00	113,107	68.00	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 69.03   STANDARD DEVIATION = 46.23   STANDARD ERROR = 0.860

FREQUENCY DISTRIBUTION OF OBJECTIVE 36 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1326	45.93	45.90	77,711	46.71	46.70
100	483	54.10	100.00	27,211	53.30	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 35.40   STANDARD DEVIATION = 36.78   STANDARD ERROR = 0.684

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FREQUENCY DISTRIBUTION OF OBJECTIVE 37 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	746	25.83	25.80	44,147	26.53	26.50
50	0	0.00	25.80	0	0.00	26.50
100	2141	74.20	100.00	122,220	73.50	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 74.16 STANDARD DEVIATION = 43.77 STANDARD ERROR = 0.814

FREQUENCY DISTRIBUTION OF OBJECTIVE 38 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	87	3.01	3.00	5,474	3.29	3.20
50	602	20.85	23.80	35,068	21.07	24.20
100	2198	76.20	100.00	125,825	75.80	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 86.55 STANDARD DEVIATION = 25.33 STANDARD ERROR = 0.471

FREQUENCY DISTRIBUTION OF OBJECTIVE 39 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	77	2.66	2.60	4,906	2.94	2.90
50	499	17.28	19.80	29,956	18.00	20.90
100	2311	80.20	100.00	131,506	79.10	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 88.69 STANDARD DEVIATION = 23.89 STANDARD ERROR = 0.444

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FREQUENCY DISTRIBUTION OF OBJECTIVE 40 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	100	3.46	3.40	5,909	3.55	3.50
50	398	13.79	17.10	23,305	14.00	17.50
100	2389	82.90	100.00	137,153	82.50	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 89.64 STANDARD DEVIATION = 24.16 STANDARD ERROR = 0.449

FREQUENCY DISTRIBUTION OF OBJECTIVE 41 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	97	100.00	100.00	5,765	100.00	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 89.41 STANDARD DEVIATION = 24.18 STANDARD ERROR = 0.450

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FREQUENCY DISTRIBUTION OF OBJECTIVE 1 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	120	4.11	4.10	6,897	4.23	4.20
50	564	22.77	26.80	37,211	22.83	27.00
100	2131	73.12	100.00	118,853	72.94	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 84.49 STANDARD DEVIATION = 27.21 STANDARD ERROR = 0.503

FREQUENCY DISTRIBUTION OF OBJECTIVE 2 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	466	15.98	15.90	26,867	16.48	16.40
50	1147	39.34	55.20	64,206	39.39	55.70
100	1302	44.68	100.00	71,889	44.13	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 64.33 STANDARD DEVIATION = 36.20 STANDARD ERROR = 0.670

FREQUENCY DISTRIBUTION OF OBJECTIVE 3 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1415	48.54	48.50	79,104	48.54	48.50
50	1226	42.05	90.50	68,527	42.05	90.50
100	274	9.41	100.00	15,331	9.41	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 30.42 STANDARD DEVIATION = 32.64 STANDARD ERROR = 0.604

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FREQUENCY DISTRIBUTION OF OBJECTIVE 4 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	527	18.07	18.00	30,975	19.00	19.00
50	1045	35.84	53.80	57,530	35.30	54.30
100	1343	46.20	100.00	71,456	45.70	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 63.99 STANDARD DEVIATION = 37.52 STANDARD ERROR = 0.694

FREQUENCY DISTRIBUTION OF OBJECTIVE 5 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1378	47.27	47.20	77,474	47.54	47.50
100	1537	52.80	100.00	85,488	52.50	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 52.72 STANDARD DEVIATION = 49.92 STANDARD ERROR = 0.924

FREQUENCY DISTRIBUTION OF OBJECTIVE 6 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1742	59.75	59.70	97,700	59.95	59.90
100	1173	40.30	100.00	65,262	40.10	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 40.24 STANDARD DEVIATION = 49.03 STANDARD ERROR = 0.908

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FREQUENCY DISTRIBUTION OF OBJECTIVE 7 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1373	47.10	47.10	76,132	46.71	46.70
100	1542	52.90	100.00	86,830	53.30	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 52.89 STANDARD DEVIATION = 49.91 STANDARD ERROR = 0.924

FREQUENCY DISTRIBUTION OF OBJECTIVE 8 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	289	9.91	9.90	16,649	10.21	10.20
50	1015	34.81	44.70	57,518	35.29	45.40
100	1611	55.30	100.00	88,795	54.60	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 72.67 STANDARD DEVIATION = 33.39 STANDARD ERROR = 0.618

FREQUENCY DISTRIBUTION OF OBJECTIVE 9 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	748	25.66	25.60	42,575	26.12	26.10
100	2167	74.40	100.00	120,386	73.90	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 74.33 STANDARD DEVIATION = 43.67 STANDARD ERROR = 0.808

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FREQUENCY DISTRIBUTION OF OBJECTIVE 10 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1095	37.56	37.50	62,316	38.23	38.20
100	1820	62.50	100.00	100,646	61.80	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 62.43 STANDARD DEVIATION = 48.42 STANDARD ERROR = 0.896

FREQUENCY DISTRIBUTION OF OBJECTIVE 11 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1882	64.56	64.50	105,305	64.61	64.60
100	1033	35.50	100.00	57,657	35.40	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 35.43 STANDARD DEVIATION = 47.83 STANDARD ERROR = 0.885

FREQUENCY DISTRIBUTION OF OBJECTIVE 12 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	156	5.35	5.30	8,806	5.40	5.40
100	2759	94.70	100.00	154,155	94.60	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 94.64 STANDARD DEVIATION = 22.50 STANDARD ERROR = 0.416

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FREQUENCY DISTRIBUTION OF OBJECTIVE 13 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	540	18.52	18.50	30,450	18.68	18.60
100	2375	81.50	100.00	132,512	81.40	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 81.47 STANDARD DEVIATION = 38.84 STANDARD ERROR = 0.719

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FREQUENCY DISTRIBUTION OF OBJECTIVE 14 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1675	57.46	57.40	93,712	57.50	57.50
100	1240	42.60	100.00	69,249	42.50	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 42.53 STANDARD DEVIATION = 49.44 STANDARD ERROR = 0.915

FREQUENCY DISTRIBUTION OF OBJECTIVE 15 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	458	15.71	15.70	25,989	15.94	15.90
50	1407	48.26	63.90	78,636	48.25	64.10
100	1050	36.10	100.00	58,336	35.90	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 60.15 STANDARD DEVIATION = 34.49 STANDARD ERROR = 0.638

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FREQUENCY DISTRIBUTION OF OBJECTIVE 16 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	2302	78.97	78.90	128,725	78.99	78.90
100	613	21.10	100.00	34,237	21.10	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 21.02 STANDARD DEVIATION = 40.75 STANDARD ERROR = 0.754

FREQUENCY DISTRIBUTION OF OBJECTIVE 17 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	971	33.31	33.30	54,600	33.50	33.50
100	1944	66.70	100.00	108,362	66.50	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 66.68 STANDARD DEVIATION = 47.13 STANDARD ERROR = 0.872

FREQUENCY DISTRIBUTION OF OBJECTIVE 18 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1596	54.75	54.70	89,561	54.95	54.90
100	1319	45.30	100.00	73,401	45.10	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 45.24 STANDARD DEVIATION = 49.77 STANDARD ERROR = 0.921

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FREQUENCY DISTRIBUTION OF OBJECTIVE 19 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	114	3.91	3.90	7,092	4.35	4.30
25	543	18.62	22.50	30,501	18.71	23.00
50	1004	34.44	56.90	55,936	34.32	57.30
75	1032	35.40	92.30	57,098	35.03	92.30
100	222	7.70	100.00	12,333	7.70	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 56.04 STANDARD DEVIATION = 23.99 STANDARD ERROR = 0.444

FREQUENCY DISTRIBUTION OF OBJECTIVE 20 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1136	38.97	38.90	63,739	39.11	39.10
100	1779	61.10	100.00	99,223	60.90	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 61.02 STANDARD DEVIATION = 48.76 STANDARD ERROR = 0.903

FREQUENCY DISTRIBUTION OF OBJECTIVE 21 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	918	31.49	31.40	51,075	31.34	31.30
100	1997	68.60	100.00	111,887	68.70	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 68.50 STANDARD DEVIATION = 46.44 STANDARD ERROR = 0.860

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      FREQUENCY DISTRIBUTION OF OBJECTIVE 22 SCORES - ALL STUDENTS

                                                       WEIGHTED  CUMULATIVE
OBJECTIVE            RELATIVE  CUMULATIVE  WEIGHTED   RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY  FREQUENCY ABSOLUTE   FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY (PERCENT)  (PERCENT) FREQUENCY  (PERCENT)   (PERCENT)
--------- --------- ---------  --------- ---------  ---------  ----------
    0         644     22.09      22.00     36,901      22.64       22.60
  100        2271     78.00     100.00    126,061      77.40      100.00
TOTAL        2915    100.00               162,962     100.00

 MEAN =  77.90    STANDARD DEVIATION =  41.48     STANDARD ERROR = 0.768



      FREQUENCY DISTRIBUTION OF OBJECTIVE 23 SCORES - ALL STUDENTS

                                                       WEIGHTED  CUMULATIVE
OBJECTIVE            RELATIVE  CUMULATIVE  WEIGHTED   RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY  FREQUENCY ABSOLUTE   FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY (PERCENT)  (PERCENT) FREQUENCY  (PERCENT)   (PERCENT)
--------- --------- ---------  --------- ---------  ---------  ----------
    0         817     28.02      28.00     46,216      28.36       28.30
   50        1466     50.29      78.20     81,622      50.08       78.30
  100         632     21.80     100.00     35,124      21.70      100.00
TOTAL        2915    100.00               162,962     100.00

 MEAN =  46.82    STANDARD DEVIATION =  35.10     STANDARD ERROR = 0.650



      FREQUENCY DISTRIBUTION OF OBJECTIVE 24 SCORES - ALL STUDENTS

                                                       WEIGHTED  CUMULATIVE
OBJECTIVE            RELATIVE  CUMULATIVE  WEIGHTED   RELATIVE    WEIGHTED
  SCORE    ABSOLUTE  FREQUENCY  FREQUENCY ABSOLUTE   FREQUENCY   FREQUENCY
(PERCENT) FREQUENCY (PERCENT)  (PERCENT) FREQUENCY  (PERCENT)   (PERCENT)
--------- --------- ---------  --------- ---------  ---------  ----------
    0         401     13.75      13.70     23,090      14.16       14.10
   50        1315     45.11      58.80     72,786      44.66       58.70
  100        1199     41.20     100.00     67,086      41.30      100.00
TOTAL        2915    100.00               162,962     100.00

 MEAN =  63.68    STANDARD DEVIATION =  34.42     STANDARD ERROR = 0.637
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FREQUENCY DISTRIBUTION OF OBJECTIVE 25 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	196	6.72	6.70	11,208	6.87	6.80
50	719	24.66	31.30	40,114	24.61	31.40
100	2000	68.70	100.00	111,640	68.60	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 80.94 STANDARD DEVIATION = 30.42 STANDARD ERROR = 0.563

FREQUENCY DISTRIBUTION OF OBJECTIVE 26 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	690	23.67	23.60	39,061	23.96	23.90
100	2225	76.40	100.00	123,901	76.12	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 76.32 STANDARD DEVIATION = 42.50 STANDARD ERROR = 0.787

FREQUENCY DISTRIBUTION OF OBJECTIVE 27 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	106	3.63	3.60	6,096	3.74	3.70
50	1366	46.86	50.40	77,060	47.28	50.90
100	1443	49.60	100.00	79,806	49.10	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 72.93 STANDARD DEVIATION = 28.32 STANDARD ERROR = 0.524

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FREQUENCY DISTRIBUTION OF OBJECTIVE 28 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	314	10.77	10.70	18,010	11.05	11.00
50	1004	34.44	45.10	57,017	34.98	45.90
100	1597	54.90	100.00	87,935	54.10	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 72.00 STANDARD DEVIATION = 33.97 STANDARD ERROR = 0.629

FREQUENCY DISTRIBUTION OF OBJECTIVE 29 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	570	19.55	19.50	32,714	20.07	20.00
50	1177	40.37	59.80	64,792	39.75	59.70
100	1168	40.20	100.00	65,455	40.30	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 60.25 STANDARD DEVIATION = 37.22 STANDARD ERROR = 0.689

FREQUENCY DISTRIBUTION OF OBJECTIVE 30 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1173	40.24	40.20	66,356	40.71	40.70
100	1742	59.80	100.00	96,606	59.30	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 59.75 STANDARD DEVIATION = 49.03 STANDARD ERROR = 0.908

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FREQUENCY DISTRIBUTION OF OBJECTIVE 31 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1705	58.49	58.40	95,240	58.44	58.40
100	1210	41.60	100.00	67,722	41.60	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 41.50 STANDARD DEVIATION = 49.27 STANDARD ERROR = 0.912

FREQUENCY DISTRIBUTION OF OBJECTIVE 32 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1250	42.88	42.80	70,528	43.27	43.20
100	1665	57.20	100.00	92,434	56.80	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 57.11 STANDARD DEVIATION = 49.49 STANDARD ERROR = 0.916

FREQUENCY DISTRIBUTION OF OBJECTIVE 33 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	994	34.09	34.00	55,790	34.23	34.20
100	1921	66.10	100.00	107,172	65.80	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 65.90 STANDARD DEVIATION = 47.40 STANDARD ERROR = 0.877

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FREQUENCY DISTRIBUTION OF OBJECTIVE 34 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	573	19.65	19.60	32,230	19.77	19.70
100	2342	80.40	100.00	130,732	80.30	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 80.34 STANDARD DEVIATION = 39.74 STANDARD ERROR = 0.736

FREQUENCY DISTRIBUTION OF OBJECTIVE 35 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	923	31.66	31.60	52,441	32.18	32.10
100	1992	68.40	100.00	110,521	67.90	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 68.33 STANDARD DEVIATION = 46.51 STANDARD ERROR = 0.861

FREQUENCY DISTRIBUTION OF OBJECTIVE 36 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1389	47.65	47.60	77,880	47.79	47.70
100	1526	52.40	100.00	85,082	52.30	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 52.34 STANDARD DEVIATION = 49.94 STANDARD ERROR = 0.924

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FREQUENCY DISTRIBUTION OF OBJECTIVE 37 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	380	13.03	13.00	21,609	13.26	13.20
50	1093	37.49	50.40	60,728	37.26	50.40
100	1442	49.60	100.00	80,625	49.60	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 68.21 STANDARD DEVIATION = 35.08 STANDARD ERROR = 0.649

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FREQUENCY DISTRIBUTION OF OBJECTIVE 1 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	38	1.27	1.20	2,197	1.34	1.30
10	67	2.25	3.40	3,712	2.27	3.50
20	192	6.45	9.80	10,171	6.24	9.70
30	418	14.05	23.80	22,570	13.86	23.50
40	532	17.89	41.60	29,267	17.97	41.40
50	578	19.44	61.00	31,620	19.41	60.80
60	448	15.06	76.00	24,778	15.21	76.00
70	311	10.46	86.40	17,146	10.52	86.50
80	209	7.02	93.40	11,476	7.04	93.50
90	133	4.47	97.80	7,128	4.37	97.80
100	47	2.20	100.00	2,770	2.20	100.00
TOTAL	2973	100.00		162,840	100.00	

MEAN = 50.20 STANDARD DEVIATION = 20.77 STANDARD ERROR = 0.380

FREQUENCY DISTRIBUTION OF OBJECTIVE 2 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	25	0.84	0.80	1,438	0.88	0.80
11	24	0.80	1.60	1,184	0.72	1.50
22	74	2.48	4.00	4,238	2.60	4.10
33	201	6.76	10.70	10,989	6.74	10.80
44	351	11.80	22.50	18,980	11.65	22.40
55	616	20.71	43.20	33,635	20.65	43.00
66	727	24.45	67.60	39,577	24.30	67.30
77	551	18.53	86.10	30,782	18.90	86.20
88	309	10.39	96.40	16,844	10.34	95.50
100	95	3.60	100.00	5,169	3.50	100.00
TOTAL	2973	100.00		162,840	100.00	

MEAN = 62.20 STANDARD DEVIATION = 17.86 STANDARD ERROR = 0.327

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FREQUENCY DISTRIBUTION OF OBJECTIVE 3 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	203	6.82	6.80	11,307	6.94	6.90
20	505	16.98	23.70	27,068	16.62	23.50
40	766	25.76	49.40	42,869	26.32	49.80
60	791	26.60	76.00	43,270	26.57	76.30
80	531	17.86	93.80	28,806	17.69	93.90
100	177	6.20	100.00	9,517	5.10	100.00
TOTAL	2973	100.00		162,840	100.00	

MEAN = 49.90 STANDARD DEVIATION = 26.18 STANDARD ERROR = 0.480

"12TH GRADE ENGLISH"

FREQUENCY DISTRIBUTION OF OBJECTIVE 4 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	58	1.95	1.90	3,176	1.95	1.90
14	119	4.00	5.90	6,598	4.05	5.90
28	280	9.41	15.30	15,722	9.65	15.50
42	439	14.73	30.00	23,764	14.59	30.00
56	0	0.00	30.00	0	0.00	30.00
70	0	0.00	30.00	0	0.00	30.00
84	0	0.00	30.00	0	0.00	30.00
100	334	70.00	100.00	18,946	70.00	100.00
TOTAL	2973	100.00		162,840	100.00	

MEAN = 62.14 STANDARD DEVIATION = 23.96 STANDARD ERROR = 0.439

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FREQUENCY DISTRIBUTION OF OBJECTIVE 5 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	120	4.03	4.00	6,735	4.13	4.10
33	411	13.82	17.80	22,304	13.69	17.70
66	1001	33.66	51.40	55,248	33.92	51.60
100	1441	48.60	100.00	78,552	48.40	100.00
TOTAL	2973	100.00		162,840	100.00	

MEAN = 75.25 STANDARD DEVIATION = 27.74 STANDARD ERROR = 0.508

FREQUENCY DISTRIBUTION OF OBJECTIVE 6 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	2973	100.00	100.00	162,840	100.00	100.00
100	0	0.00	100.00	0	0.00	100.00
TOTAL	2973	100.00		162,840	100.00	

MEAN = 0.00 STANDARD DEVIATION = 0.00 STANDARD ERROR = 0.000

FREQUENCY DISTRIBUTION OF OBJECTIVE 7 SCORES - ALL STUDENTS

OBJECTIVE SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	2973	100.00	100.00	162,840	100.00	100.00
100	0	0.00	100.00	0	0.00	100.00
TOTAL	2973	100.00		162,840	100.00	

MEAN = 0.00 STANDARD DEVIATION = 0.00 STANDARD ERROR = 0.000

TOTAL TEST SCORES

As with the objective scores, the distribution of total test scores will provide more information than the mean total test score for a test. The four tables that follow present the frequency distributions of total test scores for each test. These scores are expressed in terms of percentage of items correct. The explanation given for the objective score distributions applies to each of the remaining columns.

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

FREQUENCY DISTRIBUTION OF TOTAL TEST SCORES - ALL STUDENTS

TOTAL TEST SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	2	.06	.06	99	.07	0.07
5	1	.03	.09	48	.03	0.10
6	1	.03	.12	66	.04	0.14
13	2	.06	.18	92	.06	0.20
15	2	.06	.24	93	.06	0.26
17	4	.12	.36	153	.10	0.36
18	1	.03	.39	45	.03	0.39
20	6	.18	.57	318	.21	0.60
22	11	.34	.91	496	.33	0.93
24	8	.25	1.16	302	.20	1.13
25	14	.43	1.59	716	.48	1.61
27	12	.37	1.96	535	.36	1.97
29	14	.43	2.39	622	.41	2.38
31	15	.46	2.85	692	.46	2.84
32	20	.61	3.46	969	.64	3.48
34	17	.52	3.98	762	.51	3.99
36	29	.89	4.87	1,227	.82	4.81
37	20	.61	5.48	909	.60	5.41
39	26	.80	6.28	1,248	.83	6.24
41	22	.68	6.96	953	.63	6.87
43	29	.89	7.85	1,310	.87	7.74
44	31	.95	8.80	1,293	.86	8.60
46	27	.83	9.63	1,124	.75	9.35
48	45	1.38	11.01	2,170	1.44	10.79
50	46	1.41	12.42	2,013	1.34	12.13
51	48	1.48	13.90	2,153	1.43	13.56
53	48	1.48	15.38	2,143	1.43	14.99
55	49	1.51	16.89	2,172	1.45	16.44
56	48	1.48	18.37	2,280	1.52	17.96
58	70	2.15	20.52	3,258	2.17	20.13
60	65	2.00	22.52	2,872	1.91	22.04
62	63	1.94	24.46	2,872	1.91	23.95
63	70	2.15	26.61	3,352	2.23	26.18
65	90	2.77	29.38	4,122	2.74	28.92
67	99	3.04	32.42	4,512	3.00	31.92
68	86	2.64	35.06	3,748	2.49	34.41
70	97	2.98	38.04	4,585	3.05	37.46
72	123	3.78	41.82	5,652	3.76	41.22
74	128	3.93	45.75	6,023	4.01	45.23
75	124	3.81	49.56	5,733	3.82	49.05
77	140	4.30	53.86	6,429	4.28	53.33
79	141	4.33	58.19	6,626	4.41	57.74
81	135	4.15	62.34	6,135	4.08	61.82
82	146	4.49	66.83	6,732	4.48	66.30
84	169	5.20	72.03	7,847	5.22	71.52
86	147	4.52	76.55	6,932	4.61	76.13

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"4TH GRADE MATH"

FREQUENCY DISTRIBUTION OF TOTAL TEST SCORES - ALL STUDENTS
(continued from previous page)

TOTAL TEST SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
89	145	4.46	85.56	6,728	4.48	85.24
91	136	4.18	89.74	6,452	4.29	89.53
93	123	3.78	93.52	5,790	3.85	93.38
94	92	2.83	96.35	4,355	2.90	96.28
96	66	2.03	98.38	3,115	2.07	98.35
98	38	1.17	99.55	1,748	1.16	99.51
100	14	.45	100.00	671	.49	100.00
TOTAL	3253	100.00		150,283	100.00	

MEAN = 72.63 STANDARD DEVIATION = 14.52 STANDARD ERROR OF THE MEAN = .255

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

FREQUENCY DISTRIBUTION OF TOTAL TEST SCORES - ALL STUDENTS

TOTAL TEST SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	1	.03	.03	34	.02	0.02
11	1	.03	.06	99	.06	0.08
14	1	.03	.09	43	.03	0.11
17	1	.03	.12	17	.01	0.12
18	2	.07	.19	122	.07	0.19
21	3	.10	.29	179	.11	0.30
22	4	.14	.43	296	.18	0.48
24	2	.07	.50	130	.08	0.56
25	3	.10	.60	236	.14	0.70
27	4	.14	.74	180	.11	0.81
28	7	.24	.98	387	.23	1.04
30	4	.14	1.12	282	.17	1.21
31	4	.14	1.26	353	.21	1.42
32	8	.28	1.54	434	.26	1.68
34	10	.35	1.89	483	.29	1.97
35	10	.35	2.24	709	.43	2.40
37	12	.42	2.66	792	.48	2.88
38	9	.31	2.97	510	.31	3.19
40	15	.52	3.49	1,076	.65	3.84
41	13	.45	3.94	807	.49	4.33
42	19	.66	4.60	1,198	.72	5.05
44	14	.48	5.08	896	.54	5.59
45	16	.55	5.63	952	.57	6.16
47	19	.66	6.29	1,146	.69	6.85
48	20	.69	6.98	1,173	.71	7.56
50	25	.87	7.85	1,359	.82	8.38
51	22	.76	8.61	1,260	.76	9.14
52	19	.66	9.27	1,148	.69	9.83
54	34	1.18	10.45	2,166	1.30	11.13
55	51	1.77	12.22	3,043	1.83	12.96
57	37	1.28	13.50	2,378	1.43	14.39
58	41	1.42	14.92	2,357	1.42	15.81
60	27	.94	15.86	1,517	.91	16.72
61	42	1.45	17.31	2,297	1.38	18.10
62	41	1.42	18.73	2,350	1.41	19.51
64	48	1.66	20.39	3,053	1.84	21.35
65	41	1.42	21.81	2,489	1.50	22.85
67	42	1.45	23.26	2,309	1.39	24.24
68	62	2.15	25.41	3,683	2.21	26.45
70	73	2.53	27.94	4,130	2.48	28.93
71	62	2.15	30.09	3,534	2.12	31.05
72	61	2.11	32.20	3,480	2.09	33.14
74	61	2.11	34.31	3,557	2.14	35.28
75	76	2.63	36.94	4,673	2.81	38.09
77	81	2.81	39.75	4,554	2.74	40.83
78	71	2.46	42.21	4,199	2.52	43.35

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

FREQUENCY DISTRIBUTION OF TOTAL TEST SCORES - ALL STUDENTS
(continued from previous page)

TOTAL TEST SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
81	86	2.98	48.00	5,274	3.17	49.22
82	97	3.36	51.36	5,389	3.24	52.46
84	96	3.33	54.69	5,624	3.38	55.84
85	92	3.19	57.88	5,159	3.10	58.94
87	98	3.39	61.27	5,591	3.36	62.30
88	107	3.71	64.98	6,048	3.64	65.94
90	133	4.61	69.59	6,938	4.17	70.11
91	117	4.05	73.64	6,481	3.90	74.01
92	133	4.61	78.25	7,459	4.48	78.49
94	135	4.68	82.93	7,893	4.74	83.23
95	174	6.03	88.96	9,966	5.99	89.22
97	146	5.06	94.02	8,160	4.91	94.13
98	117	4.05	98.07	6,609	3.97	98.10
100	55	1.91	100.00	3,187	1.90	100.00
TOTAL	2887	100.00		166,368	100.00	

MEAN = 78.33 STANDARD DEVIATION = 14.53 STANDARD ERROR OF THE MEAN = .270

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

FREQUENCY DISTRIBUTION OF TOTAL TEST SCORES - ALL STUDENTS

TOTAL TEST SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
11	2	.07	.07	114	.07	0.07
15	4	.14	.21	228	.14	0.21
16	3	.10	.31	142	.09	0.30
18	5	.17	.48	322	.20	0.50
20	10	.34	.82	580	.36	0.86
22	11	.38	1.20	803	.49	1.35
24	19	.65	1.85	1,308	.80	2.15
26	12	.41	2.26	760	.47	2.62
28	15	.51	2.77	941	.58	3.20
30	42	1.44	4.21	2,437	1.50	4.70
32	35	1.20	5.41	1,937	1.19	5.89
33	31	1.06	6.47	1,726	1.06	6.95
35	61	2.09	8.56	3,119	1.91	8.86
37	55	1.89	10.45	3,116	1.91	10.77
39	52	1.78	12.23	2,993	1.84	12.61
41	61	2.09	14.32	3,562	2.19	14.80
43	73	2.50	16.82	3,983	2.44	17.24
45	90	3.09	19.91	5,433	3.33	20.57
47	82	2.81	22.72	4,535	2.78	23.35
49	60	2.06	24.78	3,361	2.06	25.41
50	72	2.47	27.25	3,958	2.43	27.84
52	92	3.16	30.41	5,211	3.20	31.04
54	97	3.33	33.74	5,687	3.49	34.53
56	118	4.05	37.79	6,575	4.04	38.57
58	117	4.01	41.80	6,312	3.87	42.44
60	97	3.33	45.13	5,421	3.33	45.77
62	110	3.77	48.90	6,065	3.72	49.49
64	106	3.64	52.54	6,124	3.76	53.25
66	131	4.49	57.03	7,268	4.46	57.71
67	135	4.63	61.66	7,365	4.52	62.23
69	128	4.39	66.05	6,438	3.95	66.18
71	131	4.49	70.54	7,240	4.44	70.62
73	112	3.84	74.38	5,991	3.68	74.30
75	114	3.91	78.29	6,357	3.90	78.20
77	100	3.43	81.72	5,962	3.66	81.86
79	109	3.74	85.46	6,115	3.75	85.61
81	108	3.70	89.16	6,181	3.79	89.40
83	66	2.26	91.42	3,703	2.27	91.67
84	74	2.54	93.96	4,087	2.51	94.18
86	65	2.23	96.19	3,558	2.18	96.36
88	44	1.51	97.70	2,335	1.43	97.79
90	19	.65	98.35	1,052	.65	98.44
92	26	.89	99.24	1,427	.88	99.32
94	13	.45	99.69	629	.39	99.71
96	6	.21	99.90	333	.20	99.91
98	2	.10	100.00	145	.09	100.00
TOTAL	2915	100.00		162,962	100.00	

MEAN = 61.49 STANDARD DEVIATION = 15.53 STANDARD ERROR OF THE MEAN = .288

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

FREQUENCY DISTRIBUTION OF TOTAL TEST SCORES - ALL STUDENTS

TOTAL TEST SCORE (PERCENT)	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (PERCENT)	WEIGHTED ABSOLUTE FREQUENCY	WEIGHTED RELATIVE FREQUENCY (PERCENT)	CUMULATIVE WEIGHTED FREQUENCY (PERCENT)
0	24	.81	.81	1,384	.85	0.85
2	2	.07	.88	112	.07	0.92
5	1	.03	.91	53	.03	0.95
8	1	.03	.94	61	.04	0.99
17	3	.10	1.04	159	.10	1.09
20	8	.27	1.31	561	.35	1.44
23	18	.61	1.92	992	.61	2.05
26	28	.94	2.86	1,689	1.04	3.09
29	42	1.41	4.27	2,105	1.29	4.38
32	58	1.95	6.22	3,114	1.91	6.29
35	78	2.62	8.84	4,254	2.61	8.90
38	108	3.63	12.47	5,651	3.47	12.37
41	130	4.37	16.84	7,149	4.39	16.76
44	161	5.42	22.26	8,967	5.51	22.27
47	173	5.82	28.08	9,362	5.75	28.02
50	180	6.05	34.13	10,119	6.21	34.23
52	196	6.59	40.72	10,630	6.53	40.76
55	209	7.03	47.75	11,262	6.92	47.68
58	202	6.79	54.54	11,328	6.96	54.64
61	196	6.59	61.13	10,329	6.34	60.98
64	205	6.90	68.03	11,301	6.94	67.92
67	154	5.18	73.21	8,580	5.27	73.19
70	166	5.58	78.79	8,772	5.39	78.58
73	116	3.90	82.69	6,190	3.80	82.38
76	147	4.94	87.63	8,271	5.08	87.46
79	104	3.50	91.13	5,905	3.63	91.09
82	89	2.99	94.12	4,813	2.96	94.05
85	63	2.12	96.24	3,607	2.22	96.27
88	45	1.51	97.75	2,399	1.47	97.74
91	35	1.18	98.93	2,010	1.23	98.97
94	26	.87	99.80	1,467	.90	99.87
97	4	.13	99.93	162	.10	99.97
100	1	.07	100.00	64	.03	100.00
TOTAL	2973	100.00		162,840	100.00	

MEAN = 57.80 STANDARD DEVIATION = 14.28 STANDARD ERROR OF THE MEAN = .262

APPENDIX E

Item Reliability Coefficients

Appendix E presents the item reliability coefficients for each item of all tests. At the top of the first page of each set of data the reader will find the particular test being reported, the number of students taking the test, the total number of items on the test, the mean score (average percentage of correct responses), the standard deviation of the mean, the Kuder-Richardson reliability coefficient for the test, and the standard error of measurement of the test.

In the text of the listings, the first column gives each item number. Note that these are not in sequence. This is because the items have been clustered by objective. The second column gives the associated objective. The column titled "COR ANS" gives the correct response option for each item. A "B" in this column indicates that the "B" response option was the correct response. The next column, "PCT COR," gives the average percentage of correct responses for that item.

The next two columns, "OBJ REL" and "TEST REL," give the point-biserial correlation coefficients of the item. The first of these is a correlation of the item with all the other items for that particular objective. The second is a correlation of the item with all other items on the test. The correlations help determine the extent to which items for a given objective, or the test as a whole, are measuring parallel concepts.

Lastly, the last six columns of the data give the frquency that each response option was chosen. The first column of these data, "NR," gives the frequency of No Responses. The other columns are for the possible response options of the questions. The numbers reported in these columns are percentages of the total sample and not frequencies.

The following tables are included in this appendix:

Fourth-Grade Mathematics

Twelfth-Grade Mathematics

Twelfth-Grade Science

Twelfth-Grade English Composition

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                          OHIO DEPARTMENT OF EDUCATION
                       DIVISION OF PLANNING AND EVALUATION

                     OHIO STATEWIDE ASSESSMENT - SPRING 1978
                               "4TH GRADE MATH"

                       3253 STUDENTS TOOK THE ENTIRE TEST

   NUMBER OF ITEMS = 53 MEAN SCORE =  72.63 STANDARD DEVIATION OF MEAN =  14.5
                KUDER-RICHARDSON RELIABILITY COFFICIENT =    0.970
                    STANDARD ERROR OF MEASUREMENT =   2.515

  ITEM               COR  PCT  OBJ   TEST         DISTRIBUTION OF RESPONSES
 NUMBER              ANS  COR  REL    REL         NR    A     B     C     D     E

     OBJECTIVE :  1

    1                 D   95  0.69  0.38          0     2     1     1    95     1
    2                 D   92  0.72  0.34          0     2     2     1    92     2
    3                 E   92  0.72  0.38          1     2     2     3     1    92

     OBJECTIVE :  2

    4                 A   75  0.82  0.62          1    75    13     5     1     4
    5                 C   74  0.84  0.56          1     4     3    74    13     6
    6                 C   66  0.81  0.59          1     6     7    66    14     6

     OBJECTIVE :  3

    7                 E   88  0.78  0.52          1     4     3     2     2    88
    8                 E   92  0.70  0.45          1     2     2     1     2    92
    9                 D   86  0.72  0.49          1     4     4     2    86     4

     OBJECTIVE :  4

   10                 E   75  0.83  0.64          3     7     6     6     4    75
   11                 C   72  0.89  0.66          3     3     5    72    10     7
   12                 C   70  0.85  0.63          4     5     4    70    12     5

     OBJECTIVE :  5

   13                 E   92  1.00  0.31          1     2     3     2     1    92

     OBJECTIVE :  6

   14                 E   64  0.75  0.39          2     4    24     4     2    64
   58                 B   69  0.76  0.56          2    11    69     4     6     8

     OBJECTIVE :  7

   15                 A   92  0.83  0.40          0    92     3     2     1     1
   16                 C   87  0.85  0.47          1     1     1    87     4     7

     OBJECTIVE :  8

   17                 A   49  1.00  0.49          2    49    20    10    14     5
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                         OHIO DEPARTMENT OF EDUCATION
                      DIVISION OF PLANNING AND EVALUATION

                     OHIO STATEWIDE ASSESSMENT - SPRING 1978
                               "4TH GRADE MATH"

                        3253 STUDENTS TOOK THE ENTIRE TEST

  NUMBER OF ITEMS = 53 MEAN SCORE =  72.63 STANDARD DEVIATION OF MEAN =  14.5
                KUDER-RICHARDSON RELIABILITY COFFICIENT =    0.970
                     STANDARD ERROR OF MEASUREMENT =    2.515

  ITEM               COR  PCT   OBJ   TEST          DISTRIBUTION OF RESPONSES
 NUMBER              ANS  COR   REL    REL        NR     A     B     C     D     E

       OBJECTIVE :    9

   18                 D   49   0.96   0.45          3     6    36     4    49     3
   19                 E   45   0.94   0.46          4     4     6     5    36    45

       OBJECTIVE :   10

   20                 A   57   0.93   0.51          4    57     5    11    12    11
   21                 E   56   0.91   0.44          4    11     4     5    20    56

       OBJECTIVE :   11

   22                 D   83   0.80   0.57          2     3     3     3    83     5
   32                 C   74   0.86   0.66          1     2     6    74     8     9

       OBJECTIVE :   12

   23                 B   80   1.00   0.54          1     4    80     5     6     4

       OBJECTIVE :   13

   33                 D   68   1.00   0.60          2     7     3     6    68    15

       OBJECTIVE :   14

   24                 E   78   1.00   0.40          2    14     3     2     1    78

       OBJECTIVE :   15

   25                 B   92   0.76   0.45          1     2    92     2     1     2
   38                 A   90   0.81   0.53          1    90     2     3     3     2

       OBJECTIVE :   16

   26                 A   40   0.77   0.36          3    40    16    16    16     9
   39                 B   49   0.79   0.47          3    20    49    12     9     7

       OBJECTIVE :   17

   27                 D   87   0.82   0.56          1     2     3     3    87     3
   46                 B   83   0.86   0.52          1     3    83     8     2     2
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                          OHIO DEPARTMENT OF EDUCATION
                       DIVISION OF PLANNING AND EVALUATION

                     OHIO STATEWIDE ASSESSMENT - SPRING 1978
                                "4TH GRADE MATH"

                        3253 STUDENTS TOOK THE ENTIRE TEST

   NUMBER OF ITEMS = 53 MEAN SCORE =  72.63 STANDARD DEVIATION OF MEAN =  14.5
                KUDER-RICHARDSON RELIABILITY COFFICIENT =    0.970
                    STANDARD ERROR OF MEASUREMENT =    2.515

   ITEM               COR   PCT   OBJ   TEST        DISTRIBUTION OF RESPONSES
  NUMBER              ANS   COR   REL    REL        NR     A     B     C     D     E

        OBJECTIVE :  18

    28                 C    72   0.74   0.47         1     2    12    72    10     3
    42                 C    41   0.80   0.48         1     9     8    41    39     2

        OBJECTIVE :  19

    29                 E    66   0.87   0.50         1    10     3     8    11    66
    45                 B    71   0.90   0.60         2     6    71    11     7     4

        OBJECTIVE :  20

    30                 D    66   0.81   0.45         0    20     8     1    66     4
    41                 E    52   0.81   0.52         1     3    15    18    12    52

        OBJECTIVE :  21

    31                 E    91   0.72   0.39         1     1     1     2     4    91
    44                 A    92   0.77   0.47         1    92     5     1     1     1

        OBJECTIVE :  22

    34                 A    87   1.00   0.50         1    87     2     3     2     5

        OBJECTIVE :  23

    35                 C    67   0.84   0.63         1     5     5    67     6    17
    40                 A    66   0.86   0.65         2    66     5     4     8    15

        OBJECTIVE :  24

    36                 D    62   0.83   0.62         1     7     6    15    62     8
    37                 D    80   0.79   0.62         1     3     4     7    80     6

        OBJECTIVE :  25

    43                 B    89   0.85   0.58         1     5    89     3     1     1
    47                 A    87   0.87   0.63         2    87     5     4     2     1

        OBJECTIVE :  26

    48                 C    85   1.00   0.55         1     4     6    85     2     1
```

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                         OHIO DEPARTMENT OF EDUCATION
                      DIVISION OF PLANNING AND EVALUATION

                    OHIO STATEWIDE ASSESSMENT - SPRING 1978
                             "4TH GRADE MATH"

                      3253 STUDENTS TOOK THE ENTIRE TEST

 NUMBER OF ITEMS = 53 MEAN SCORE =  72.63 STANDARD DEVIATION OF MEAN =  14.5
              KUDER-RICHARDSON RELIABILITY COFFICIENT =   0.970
                  STANDARD ERROR OF MEASUREMENT =   2.515


  ITEM           COR  PCT  OBJ  TEST        DISTRIBUTION OF RESPONSES
 NUMBER          ANS  COR  REL   REL        NR    A    B    C    D    E

     OBJECTIVE : 27

   49             D   74  0.89  0.61         1    3    6   11   74    5
   52             B   93  0.77  0.53         1    1   93    2    1    1

     OBJECTIVE : 28

   50             C   84  0.84  0.56         1    3    3   84    4    4
   51             B   85  0.87  0.56         1    5   85    3    4    1

     OBJECTIVE : 29

   53             A   57  0.82  0.57         2   57    6   15    8   12
   54             B   65  0.84  0.61         2    6   65    9    6   11

     OBJECTIVE : 30

   55             C   70  1.00  0.59         3    6    6   70    9    6

     OBJECTIVE : 31

   56             C   19  0.66  0.12         2    8    6   19   52   13
   57             D   60  0.80  0.61         2    9    8    9   60   12
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                    OHIO DEPARTMENT OF EDUCATION
                 DIVISION OF PLANNING AND EVALUATION

               OHIO STATEWIDE ASSESSMENT - SPRING 1978
                          "12TH GRADE MATH"

                   2887 STUDENTS TOOK THE ENTIRE TEST

NUMBER OF ITEMS = 70 MEAN SCORE =  78.33 STANDARD DEVIATION OF MEAN =  14.5
          KUDER-RICHARDSON RELIABILITY COFFICIENT =     0.966
             STANDARD ERROR OF MEASUREMENT =     2.679

ITEM              COR  PCT  OBJ   TEST          DISTRIBUTION OF RESPONSES
NUMBER            ANS  COR  REL   REL          NR    A    B    C    D    E

     OBJECTIVE :  1

   1               C   92  0.74  0.16          0    2    1   92    5    0
   2               B   95  0.48  0.19          0    3   95    1    1    0

     OBJECTIVE :  2

   3               E   84  0.91  0.28          0    1   11    0    4   84
   4               A   96  0.64  0.30          0   96    0    2    0    1

     OBJECTIVE :  3

   5               E   93  0.92  0.32          0    0    3    3    1   93
   6               D   93  0.74  0.40          0    1    1    3   93    1

     OBJECTIVE :  4

   7               A   77  0.94  0.57          0   77    1   20    2    0
   8               D   94  0.73  0.44          0    4    0    1   94    1

     OBJECTIVE :  5

   9               D   88  0.82  0.56          0    4    7    1   88    0
  35               D   94  0.80  0.50          0    1    1    3   94    1
  38               D   92  0.69  0.44          0    3    1    2   92    2

     OBJECTIVE :  6

  10               A   86  0.64  0.45          0   86    2    5    2    6
  11               E   31  0.82  0.48          0   18   20   29    2   31

     OBJECTIVE :  7

  12               B   78  0.73  0.59          1   10   78    6    3    2
  36               E   73  0.78  0.46          0    3    7    2   15   73

     OBJECTIVE :  8

  14               B   97  1.00  0.27          0    0   97    0    0    2

     OBJECTIVE :  9

  13               C   90  0.88  0.53          0    6    1   90    1    1
  37               A   94  0.77  0.35          0   94    1    1    1    3
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                         OHIO DEPARTMENT OF EDUCATION
                     DIVISION OF PLANNING AND EVALUATION

                    OHIO STATEWIDE ASSESSMENT - SPRING 1978
                              "12TH GRADE MATH"

                       2887 STUDENTS TOOK THE ENTIRE TEST

  NUMBER OF ITEMS = 70 MEAN SCORE =  78.33 STANDARD DEVIATION OF MEAN =  14.5
               KUDER-RICHARDSON RELIABILITY COFFICIENT =    0.966
                  STANDARD ERROR OF MEASUREMENT =    2.679

   ITEM            COR  PCT  OBJ   TEST        DISTRIBUTION OF RESPONSES
  NUMBER           ANS  COR  REL   REL        NR    A    B    C    D    E

      OBJECTIVE : 10

   15               C   80  0.85  0.61         0    6    0   80   14    0
   16               C   92  0.72  0.53         0    3    1   92    4    1

      OBJECTIVE : 11

   17               A   83  0.78  0.49         0   83    1   11    4    0
   18               B   84  0.80  0.53         0    1   84    3    2   10

      OBJECTIVE : 12

   19               C   72  0.88  0.65         0   13    9   72    4    2
   20               C   63  0.88  0.71         0   18   15   63    2    1

      OBJECTIVE : 13

   39               C   86  1.00  0.58         1    4    4   86    4    1

      OBJECTIVE : 14

   21               E   70  0.96  0.83         0    3    6   19    2   70
   22               E   73  0.92  0.78         0    1   22    1    2   73

      OBJECTIVE : 15

   23               E   76  1.00  0.78         1    1    8   10    3   76

      OBJECTIVE : 16

   24               B   74  0.93  0.54         0    7   74    3   15    1
   25               A   72  0.96  0.56         0   72    4    6   15    3

      OBJECTIVE : 17

   63               B   91  1.00  0.32         0    1   91    7    1    0

      OBJECTIVE : 18

   26               B   94  1.00  0.44         0    2   94    1    2    0

      OBJECTIVE : 19

   27               E   71  1.00  0.81         0    4    5   11    9   71
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OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978
"12TH GRADE MATH"

2887 STUDENTS TOOK THE ENTIRE TEST

NUMBER OF ITEMS = 70 MEAN SCORE = 78.33 STANDARD DEVIATION OF MEAN = 14.5
KUDER-RICHARDSON RELIABILITY COEFFICIENT = 0.966
STANDARD ERROR OF MEASUREMENT = 2.679

ITEM NUMBER	COR ANS	PCT COR	OBJ REL	TEST REL	NR	A	B	C	D	E
OBJECTIVE : 20										
28	B	52	0.83	0.64	2	13	52	5	21	8
29	E	68	0.80	0.71	1	10	11	3	6	68
OBJECTIVE : 21										
30	D	47	1.00	0.66	1	45	3	4	47	1
OBJECTIVE : 22										
40	B	45	0.82	0.59	1	26	45	24	1	3
52	E	77	0.75	0.52	1	5	13	3	2	77
OBJECTIVE : 23										
31	C	55	0.85	0.64	1	12	8	55	19	6
32	E	73	0.80	0.55	1	1	4	9	12	73
OBJECTIVE : 24										
33	C	73	1.00	0.62	0	5	2	73	17	2
OBJECTIVE : 25										
34	D	88	0.69	0.49	0	0	2	2	88	7
53	E	72	0.87	0.57	1	1	24	2	1	72
OBJECTIVE : 26										
41	C	82	0.92	0.43	0	0	17	82	0	0
51	C	95	0.75	0.41	0	1	1	95	1	1
OBJECTIVE : 27										
65	C	75	0.84	0.63	1	2	16	75	5	3
69	A	83	0.80	0.64	0	83	7	3	1	5
OBJECTIVE : 28										
62	C	67	1.00	0.54	1	16	7	67	8	2

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978
"12TH GRADE MATH"

2887 STUDENTS TOOK THE ENTIRE TEST

NUMBER OF ITEMS = 70 MEAN SCORE = 78.33 STANDARD DEVIATION OF MEAN = 14.5
KUDER-RICHARDSON RELIABILITY COEFFICIENT = 0.966
STANDARD ERROR OF MEASUREMENT = 2.679

ITEM NUMBER	COR ANS	PCT COR	OBJ REL	TEST REL	DISTRIBUTION OF RESPONSES					
					NR	A	B	C	D	E
OBJECTIVE : 29										
42	C	84	0.83	0.54	0	2	3	84	8	3
43	A	86	0.72	0.39	0	86	11	1	1	1
OBJECTIVE : 30										
44	D	82	0.83	0.69	0	2	5	10	82	1
54	B	86	0.80	0.55	1	4	86	5	3	2
OBJECTIVE : 31										
45	D	90	0.61	0.67	0	4	2	2	90	2
46	A	70	0.84	0.51	2	70	11	8	4	5
OBJECTIVE : 32										
47	A	75	0.81	0.52	0	75	3	1	4	16
55	B	90	0.54	0.34	0	1	90	6	2	0
OBJECTIVE : 33										
48	B	58	1.00	0.58	1	25	58	6	3	8
OBJECTIVE : 34										
49	E	91	1.00	0.41	0	1	5	1	1	91
OBJECTIVE : 35										
64	B	69	1.00	0.53	1	15	69	9	4	2
OBJECTIVE : 36										
50	D	30	0.76	0.44	0	50	6	8	30	5
56	D	41	0.82	0.50	1	31	4	11	41	12
OBJECTIVE : 37										
57	D	74	1.00	0.75	1	2	12	7	74	4

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                         OHIO DEPARTMENT OF EDUCATION
                      DIVISION OF PLANNING AND EVALUATION

                    OHIO STATEWIDE ASSESSMENT - SPRING 1978
                              "12TH GRADE MATH"

                        2887 STUDENTS TOOK THE ENTIRE TEST

 NUMBER OF ITEMS = 70 MEAN SCORE =  78.33 STANDARD DEVIATION OF MEAN =  14.5
             KUDER-RICHARDSON RELIABILITY COFFICIENT =    0.966
                 STANDARD ERROR OF MEASUREMENT =   2.679

 ITEM               COR  PCT  OBJ  TEST       DISTRIBUTION OF RESPONSES
NUMBER              ANS  COR  REL   REL       NR    A    B    C    D    E

     OBJECTIVE : 38

  58                 C   82  0.84  0.38        0    1    1   82   11    4
  66                 D   91  0.63  0.35        1    1    1    5   91    1

     OBJECTIVE : 39

  60                 D   82  0.89  0.61        1    1    1    1   82   14
  67                 E   95  0.54  0.44        1    1    1    1    2   95

     OBJECTIVE : 40

  59                 A   92  0.70  0.52        1   92    3    2    1    2
  70                 B   87  0.75  0.49        0    5   87    4    2    1

     OBJECTIVE : 41

  61                 A   89  0.82  0.50        1   89    2    4    2    2
  68                 A   90  0.87  0.42        1   90    4    2    3    1
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                    OHIO DEPARTMENT OF EDUCATION
                  DIVISION OF PLANNING AND EVALUATION

                 OHIO STATEWIDE ASSESSMENT - SPRING 1978
                        "12TH GRADE SCIENCE"

                   2915 STUDENTS TOOK THE ENTIRE TEST

 NUMBER OF ITEMS = 53 MEAN SCORE =  61.49 STANDARD DEVIATION OF MEAN =  15.5
              KUDER-RICHARDSON RELIABILITY COFFICIENT =   0.974
                 STANDARD ERROR OF MEASUREMENT =   2.504

  ITEM             COR  PCT  OBJ   TEST       DISTRIBUTION OF RESPONSES
 NUMBER            ANS  COR  REL    REL       NR    A    B    C    D    E

      OBJECTIVE :  1

    1               B   88  0.79  0.30        0    1   88    2    1    8
    2               C   81  0.83  0.33        0   10    1   81    3    4

      OBJECTIVE :  2

    3               A   62  0.78  0.44        0   62   22    6    3    6
    4               D   67  0.75  0.47        0   10    8   14   67    1

      OBJECTIVE :  3

    5               D   41  0.82  0.31        0   10    9   37   41    3
    6               B   20  0.66  0.08        0   19   20    3   50    8

      OBJECTIVE :  4

    7               C   61  0.80  0.55        0    7   15   61   11    5
   51               D   67  0.80  0.51        1    8    7    7   67   10

      OBJECTIVE :  5

   20               E   53  1.00  0.15        0   10    3   31    3   53

      OBJECTIVE :  6

   11               D   40  1.00  0.39        0    9   19   29   40    3

      OBJECTIVE :  7

   12               A   53  1.00  0.37        0   53    2   17    2   26

      OBJECTIVE :  8

   30               E   80  0.66  0.46        0    2    3    4    9   80
   31               E   65  0.77  0.43        0   18    3    3   10   65

      OBJECTIVE :  9

   13               C   74  1.00  0.51        0    6    2   74    4   14

      OBJECTIVE : 10

   14               E   62  1.00  0.39        0   11   11    6   10   62
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                    OHIO DEPARTMENT OF EDUCATION
                 DIVISION OF PLANNING AND EVALUATION

                OHIO STATEWIDE ASSESSMENT - SPRING 1978
                        "12TH GRADE SCIENCE"

                 2915 STUDENTS TOOK THE ENTIRE TEST

  NUMBER OF ITEMS = 53 MEAN SCORE =  61,49 STANDARD DEVIATION OF MEAN =  15,5
              KUDER-RICHARDSON RELIABILITY COFFICIENT =    0,974
                STANDARD ERROR OF MEASUREMENT =    2,504

  ITEM             COR  PCT  OBJ   TEST        DISTRIBUTION OF RESPONSES
 NUMBER            ANS  COR  REL    REL        NR    A    B    C    D    E

      OBJECTIVE : 11

   15               E   35  1,00  0,37         1   11    6    6   40   35

      OBJECTIVE : 12

   16               B   95  1,00  0,26         0    1   95    2    0    1

      OBJECTIVE : 13

   17               A   81  1,00  0,20         0   81    1    2   10    6

      OBJECTIVE : 14

   18               A   43  1,00  0,38         0   43   19    7   27    4

      OBJECTIVE : 15

   19               E   45  0,79  0,28         0   33   10    6    6   45
   52               E   76  0,72  0,43         0    4    3    8   10   76

      OBJECTIVE : 16

   21               B   21  1,00  0,39         0   39   21    7   23    8

      OBJECTIVE : 17

   22               D   67  1,00  0,46         0    7    8   13   67    5

      OBJECTIVE : 18

   23               A   45  1,00  0,31         0   45    8    5   37    5

      OBJECTIVE : 19

   24               A   15  0,50  0,40         0   15   58    3    3   20
   25               A   80  0,58  0,45         1   80    6    3    2    8
   26               D   63  0,64  0,32         0    6    5   14   63   12
   53               C   67  0,59  0,25         0   15    7   67    5    5

      OBJECTIVE : 20

   27               E   61  1,00  0,54         0    4   22    6    6   61
```

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978
"12TH GRADE SCIENCE"

2915 STUDENTS TOOK THE ENTIRE TEST

NUMBER OF ITEMS = 53 MEAN SCORE = 61.49 STANDARD DEVIATION OF MEAN = 15.5
KUDER-RICHARDSON RELIABILITY COEFFICIENT = 0.974
STANDARD ERROR OF MEASUREMENT = 2.504

ITEM NUMBER	COR ANS	PCT COR	OBJ REL	TEST REL	DISTRIBUTION OF RESPONSES NR	A	B	C	D	E
OBJECTIVE : 21										
29	B	69	1.00	0.49	1	3	69	17	6	4
OBJECTIVE : 22										
28	B	78	1.00	0.35	0	5	78	7	2	8
OBJECTIVE : 23										
32	D	27	0.74	0.36	0	64	4	3	27	2
44	B	66	0.75	0.53	1	8	66	13	5	8
OBJECTIVE : 24										
33	D	52	0.79	0.34	0	24	4	4	52	15
34	E	75	0.65	0.46	0	2	17	4	2	75
OBJECTIVE : 25										
42	D	83	0.72	0.47	1	5	4	4	83	3
10	C	79	0.83	0.52	0	3	9	79	4	6
OBJECTIVE : 26										
35	E	76	1.00	0.56	0	5	8	6	4	76
OBJECTIVE : 27										
8	C	95	0.46	0.31	0	1	1	95	2	1
36	C	51	0.90	0.50	0	24	15	51	8	2
OBJECTIVE : 28										
37	A	61	0.85	0.51	0	61	2	7	30	1
38	C	83	0.71	0.47	0	2	7	83	4	3
OBJECTIVE : 29										
9	A	65	0.77	0.53	0	65	25	4	4	1
39	A	55	0.77	0.39	1	55	7	9	21	8

OHIO DEPARTMENT OF EDUCATION
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OHIO STATEWIDE ASSESSMENT - SPRING 1978
"12TH GRADE SCIENCE"

2915 STUDENTS TOOK THE ENTIRE TEST

NUMBER OF ITEMS = 53 MEAN SCORE = 61.49 STANDARD DEVIATION OF MEAN = 15.5
KUDER-RICHARDSON RELIABILITY COFFICIENT = 0.974
STANDARD ERROR OF MEASUREMENT = 2.504

ITEM NUMBER	COR ANS	PCT COR	OBJ REL	TEST REL	DISTRIBUTION OF RESPONSES NR	A	B	C	D	E
OBJECTIVE : 30										
40	E	60	1.00	0.10	1	30	5	2	3	60
OBJECTIVE : 31										
41	C	42	1.00	0.42	0	5	19	42	22	12
OBJECTIVE : 32										
43	B	57	1.00	0.32	1	29	57	7	3	3
OBJECTIVE : 33										
45	B	66	1.00	0.44	1	7	66	19	4	3
OBJECTIVE : 34										
46	B	80	1.00	0.50	1	3	80	5	4	8
OBJECTIVE : 35										
47	C	68	1.00	0.59	1	6	18	68	5	2
OBJECTIVE : 36										
48	A	52	1.00	0.51	1	52	12	3	11	20
OBJECTIVE : 37										
49	D	77	0.73	0.46	1	7	6	6	77	4
50	C	60	0.80	0.37	1	16	9	60	11	3

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                          OHIO DEPARTMENT OF EDUCATION
                       DIVISION OF PLANNING AND EVALUATION

                       OHIO STATEWIDE ASSESSMENT - SPRING 1978
                               "12TH GRADE ENGLISH"

                         2973 STUDENTS TOOK THE ENTIRE TEST

  NUMBER OF ITEMS = 36 MEAN SCORE =  57.80 STANDARD DEVIATION OF MEAN =  14.2
                  KUDER-RICHARDSON RELIABILITY COFFICIENT =    0.990
                      STANDARD ERROR OF MEASUREMENT =    1.428

 ITEM              COR   PCT   OBJ   TEST        DISTRIBUTION OF RESPONSES
 NUMBER            ANS   COR   REL    REL        NR     A     B     C     D     E

      OBJECTIVE :  1

     9              A    90   0.43  0.48          1    90     4     3     2     0
    13              B    37   0.48  0.42          2     7    37    27    27     0
    14              A    68   0.56  0.56          1    68     5    20     5     0
    21              B    47   0.45  0.32          1    46    47     3     2     0
    22              D    42   0.33  0.22          1    12    30    15    42     0
    23              A    65   0.52  0.59          1    65    25     6     3     0
    25              B    47   0.50  0.54          2     8    47    15    28     0
    28              B    37   0.41  0.26          2    13    37    13    35     0
    30              D    45   0.44  0.37          2     5    15    33    45     0
    31              C    23   0.50  0.44          1    17    55    23     4     0

      OBJECTIVE :  2

     1              B    36   0.55  0.59          2     8    36    44    10     0
     2              D    87   0.54  0.49          1     4     5     3    87     0
     3              A    33   0.37  0.25          2    33    41    11    13     0
     4              B    86   0.52  0.41          1     6    86     6     1     0
    12              C    71   0.58  0.53          2     5     8    71    14     0
    16              A    83   0.58  0.52          1    83    10     3     3     0
    17              B    87   0.41  0.29          1     4    87     5     3     0
    24              D    33   0.41  0.23          2    12    23    31    33     0
    33              C    50   0.53  0.39          2    10    31    50     8     0

      OBJECTIVE :  3

     5              B    71   0.60  0.41          2     1    71    20     6     0
     6              B    65   0.52  0.45          2     6    65     6    20     0
     7              C    23   0.46  0.32          3    50     5    23    19     0
    18              A    41   0.57  0.41          1    41    35    19     4     0
    20              D    49   0.60  0.49          1     5    35    11    49     0

      OBJECTIVE :  4

     8              D    85   0.48  0.53          2     5     1     8    85     0
    10              C    71   0.56  0.54          2    13    11    71     3     0
    11              B    63   0.63  0.60          3    13    63    16     5     0
    19              B    50   0.48  0.34          1    17    50    12    20     0
    26              A    80   0.56  0.47          1    80    12     4     3     0
    29              A    33   0.56  0.52          1    33    21    41     4     0
    32              B    57   0.60  0.53          2     8    57    11    24     0
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                    OHIO DEPARTMENT OF EDUCATION
                 DIVISION OF PLANNING AND EVALUATION

               OHIO STATEWIDE ASSESSMENT - SPRING 1978
                        "12TH GRADE ENGLISH"

                  2973 STUDENTS TOOK THE ENTIRE TEST

 NUMBER OF ITEMS = 36 MEAN SCORE =  57.80 STANDARD DEVIATION OF MEAN =  14.2
           KUDER-RICHARDSON RELIABILITY COFFICIENT =    0.990
              STANDARD ERROR OF MEASUREMENT =    1.428


 ITEM            COR  PCT  OBJ   TEST      DISTRIBUTION OF RESPONSES
NUMBER           ANS  COR  REL   REL       NR    A     B     C     D     E

     OBJECTIVE :  5

  34              B   85  0.59  0.41        1     1    85     5     8     0
  35              B   78  0.66  0.39        1     8    78     5     8     0
  36              A   63  0.74  0.34        1    63    22    10     4     0

     OBJECTIVE :  6  OPEN-ENDED WRITING SAMPLE


     OBJECTIVE :  7  OPEN-ENDED WRITING SAMPLE
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APPENDIX F

STUDENT SAMPLE CHARACTERISTICS

In addition to the questions needed to classify students into socioeconomic categories, other questions dealing with race, the sex of the student, number of courses taken in a specific subject area, etc., were included on the answer sheets. Data from these questions are reported in this appendix from each of the tests.

The first column of each table indicates the possible responses for each question. Also, a no response category is listed to account for those students who failed to answer the respective questions. Column two "Absolute Frequency" gives the number of students that responded with the answers listed in the first column. The third and fourth columns show what percent of the total sample is represented by each of the numbers in the second column and the cumulation of these percentages respectively. All questions other than those dealing with the students' sex and race have a fifth column indicating the average total test score for the students grouped by how they responded to the question. This column provides some information on the relationship between how the students responded to the questions and their performance on the total test.

For the readers' convenience, a copy of the answer sheet containing these questions appears preceding each table.

STATEWIDE STUDENT NEEDS

ASSESSMENT

Mathematics Fourth Grade Student Answer Sheet

Student Questionnaire

Student ID Number ____________________

1. ① male ② female

2. ① Black/Negro
   ② White/Caucasian
   ③ American Indian or Alaska Native
   ④ Asian or Pacific Islander
   ⑤ Hispanic

3.

Father	Mother	
①	①	did not complete the eighth grade
②	②	completed eighth grade but did not go to high school
③	③	went to high school but did not graduate
④	④	graduated from high school (or equivalent)
⑤	⑤	some education after high school
⑥	⑥	graduated from college
⑦	⑦	I don't know.

4.

Father	Mother	
①	①	semi-skilled
②	②	skilled craftsman
③	③	office or sales
④	④	professional
⑤	⑤	manager or owner
⑥	⑥	homemaker
⑦	⑦	unemployed
⑧	⑧	not living
⑨	⑨	I don't know.

Sample Questions

Sample 1:	Ⓐ	Ⓑ	●	Ⓓ	Ⓔ
Sample 2:	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
Sample 3:	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ

PLEASE GO ON TO THE NEXT PAGE

Fill in the correct answer

1. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
2. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
3. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
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Conducted by:

Ohio Department of Education,
Division of Planning and Evaluation

STATEWIDE STUDENT NEEDS

ASSESSMENT

1978
Mathematics
Twelfth Grade

Student Answer Sheet

Conducted by:

Ohio Department of Education,
Division of Planning and Evaluation

PART A
STUDENT QUESTIONNAIRE

1. Fill in ONE circle. You are: ① male ② female

2. Fill in ONE circle. You are:
① Black/Negro
② White/Caucasian
③ American Indian or Alaska Native
④ Asian or Pacific Islander
⑤ Hispanic

3. How much school did your father and mother complete? Fill in ONE circle in the column labelled "Father." Then fill in ONE circle in the column labeled "Mother."

Father	Mother	
①	①	did not complete the eighth grade
②	②	completed the eighth grade but did not go to high school
③	③	went to high school but did not graduate from high school
④	④	graduated from high school (or equivalent education)
⑤	⑤	some education after graduation from high school
⑥	⑥	graduated from college
⑦	⑦	I don't know.

PLEASE GO ON TO THE NEXT PAGE

4. For grades 9-12 please mark the one circle that best describes the amount of math instruction you have received. Include this year.

   ① 1 semester or less
   ② 1 year
   ③ 2 years
   ④ 3 years
   ⑤ 4 years

5. Has use of the metric system been taught in any of your courses?

   ① Yes
   ② No

6. Which one of the following best describes the program or curriculum in which you are now enrolled?

   ① College preparatory
   ② Business or commercial
   ③ Vocational education
   ④ Agriculture
   ⑤ General

PLEASE GO ON TO THE NEXT PAGE

7. From the list of job categories below, pick the type of work which comes closest to your father's main job and fill in the circle beside the job in the column labelled "Father."

Then pick the type of work which comes closest to your mother's main job and fill in the circle beside the job in the column labelled "Mother."

Please fill in only ONE circle in each column. If your father or mother has more than one job, pick his or her MAIN job.

Father	Mother	
①	①	SEMI-SKILLED WORKER: factory or farm worker, bus driver, gardener, waiter or waitress, gas station attendant, cook, maid, taxi driver, laborer, meat cutter, etc.
②	②	SKILLED CRAFTSMAN OR FOREMAN: carpenter, mechanic, plumber, electrician, policeman, draftsman, technician, barber, beautician, seamstress, practical nurse, surveyor, fireman, dental technician, baker, enlisted person in military, tailor, plasterer, factory foreman, etc.
③	③	OFFICE OR SALES CLERK: bank or store clerk, bookkeeper, mail clerk, office worker, secretary, typist, etc.
④	④	PROFESSIONAL: teacher, doctor, engineer, lawyer, social worker, public accountant, musician, dentist, writer, registered nurse, artist, librarian, scientist, etc.
⑤	⑤	MANAGER OR OWNER: store or office manager, banker, business or farm owner, government official, real estate or insurance sales, sales manager, factory supervisor, retail store owner, contractor, wholesaler, etc.
⑥	⑥	HOMEMAKER
⑦	⑦	Unemployed
⑧	⑧	Not Living
⑨	⑨	I don't know.

STOP

SAMPLE QUESTIONS

Sample 1: Ⓐ Ⓑ ● Ⓓ Ⓔ
Sample 2: Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
Sample 3: Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

Fill in the correct answer.

1. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
2. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
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STATEWIDE STUDENT NEEDS

ASSESSMENT

1978
Science
Twelfth Grade

Student Answer Sheet

Conducted by:

Ohio Department of Education,
Division of Planning and Evaluation

PART A
STUDENT QUESTIONNAIRE

1. Fill in ONE circle. You are: ① male ② female

2. Fill in ONE circle. You are:
   - ① Black/Negro
   - ② White/Caucasian
   - ③ American Indian or Alaska Native
   - ④ Asian or Pacific Islander
   - ⑤ Hispanic

3. How much school did your father and mother complete? Fill in ONE circle in the column labelled "Father." Then fill in ONE circle in the column labeled "Mother."

Father	Mother	
①	①	did not complete the eighth grade
②	②	completed the eighth grade but did not go to high school
③	③	went to high school but did not graduate from high school
④	④	graduated from high school (or equivalent education)
⑤	⑤	some education after graduation from high school
⑥	⑥	graduated from college
⑦	⑦	I don't know.

PLEASE GO ON TO THE NEXT PAGE

4. From the list of job categories below, pick the type of work which comes closest to your father's main job and fill in the circle beside the job in the column labelled "Father."

Then pick the type of work which comes closest to your mother's main job and fill in the circle beside the job in the column labelled "Mother."

Please fill in only ONE circle in each column. If your father or mother has more than one job, pick his or her MAIN job.

Father	Mother	
①	①	SEMI-SKILLED WORKER: factory or farm worker, bus driver, gardener, waiter or waitress, gas station attendant, cook, maid, taxi driver, laborer, meat cutter, etc.
②	②	SKILLED CRAFTSMAN OR FOREMAN: carpenter, mechanic, plumber, electrician, policeman, draftsman, technician, barber, beautician, seamstress, practical nurse, surveyor, fireman, dental technician, baker, enlisted person in military, tailor, plasterer, factory foreman, etc.
③	③	OFFICE OR SALES CLERK: bank or store clerk, bookkeeper, mail clerk, office worker, secretary, typist, etc.
④	④	PROFESSIONAL: teacher, doctor, engineer, lawyer, social worker, public accountant, musician, dentist, writer, registered nurse, artist, librarian, scientist, etc.
⑤	⑤	MANAGER OR OWNER: store or office manager, banker, business or farm owner, government official, real estate or insurance sales, sales manager, factory supervisor, retail store owner, contractor, wholesaler, etc.
⑥	⑥	HOMEMAKER
⑦	⑦	Unemployed
⑧	⑧	Not Living
⑨	⑨	I don't know

5. Does your mother or father have a science related occupation? Fill in ONE circle

Yes Ⓐ

No Ⓑ

PLEASE GO ON TO THE NEXT PAGE

6. Fill in one circle below the number of years that comes closest to the number of years of science instruction you have received since the beginning of the seventh grade. Include this year if you are presently enrolled in a science course.

2 years or less	3 years	4 years	5 years	6 years
Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ

7. Considering your education in grades K-12, fill in one circle below the word or words that best describe your preparation in science.

Excellent	Above Average	Average	Poor	Very Poor
⑤	④	③	②	①

8. Fill in one circle below the word or words that best describe your reading ability.

Excellent	Above Average	Average	Poor	Very Poor
⑤	④	③	②	①

9. Do you presently have a science related hobby such as photography, shell collecting, rock collecting, bird watching etc. Fill in one circle.

Yes Ⓐ If yes, what? ______________________

No Ⓑ

10. Do you have plans for selecting a science related career? Fill in one circle.

Yes Ⓐ If yes, what? ______________________

No Ⓑ

11. All packages of breakfast cereal now have a listing of the contents on their side or back. To what extent would you use this information on the boxes to decide which cereal to buy? Fill in one circle.

not at all	slightly	a fair amount	to a large extent	totally
①	②	③	④	⑤

12. To what extent do you enjoy science related television programs, newspaper articles, public displays, museums, etc. Fill in one circle.

not at all	slightly	a fair amount	to a large extent	totally
①	②	③	④	⑤

STOP **DO NOT TURN THE PAGE UNTIL TOLD TO DO SO**

Part B

SAMPLE QUESTIONS

Sample 1: Ⓐ Ⓑ ● Ⓓ Ⓔ
Sample 2: Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
Sample 3: Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

Fill in the correct answer.

1. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
2. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
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PART A
STUDENT QUESTIONNAIRE

TWELFTH-GRADE ENGLISH COMPOSITION

1. Fill in ONE circle. You are: ① male ② female

2. Fill in ONE circle. You are:
   ① Black/Negro
   ② White/Caucasian
   ③ American Indian or Alaska Native
   ④ Asian or Pacific Islander
   ⑤ Hispanic

3. How much school did your father and mother complete? Fill in ONE circle in the column labelled "Father." Then fill in ONE circle in the column labeled "Mother."

Father	Mother	
①	①	did not complete the eighth grade
②	②	completed the eighth grade but did not go to high school
③	③	went to high school but did not graduate from high school
④	④	graduated from high school (or equivalent education)
⑤	⑤	some education after graduation from high school
⑥	⑥	graduated from college
⑦	⑦	I don't know.

PLEASE GO ON TO THE NEXT PAGE

4. Which choice below comes closest to the amount of instruction in English composition you have received in grades 9 through 12. Fill in ONE circle.

Ⓐ one year
Ⓑ two years
Ⓒ three years
Ⓓ four years

5. From the list of job categories below, pick the type of work which comes closest to your father's main job and fill in the circle beside the job in the column labelled "Father."

Then pick the type of work which comes closest to your mother's main job and fill in the circle beside the job in the column labelled "Mother."

Please fill in only ONE circle in each column. If your father or mother has more than one job, pick his or her MAIN job.

Father	Mother	
①	①	SEMI-SKILLED WORKER: factory or farm worker, bus driver, gardener, waiter or waitress, gas station attendant, cook, maid, taxi driver, laborer, meat cutter, etc.
②	②	SKILLED CRAFTSMAN OR FOREMAN: carpenter, mechanic, plumber, electrician, policeman, draftsman, technician, barber, beautician, seamstress, practical nurse, surveyor, fireman, dental technician, baker, enlisted person in military, tailor, plasterer, factory foreman, etc.
③	③	OFFICE OR SALES CLERK: bank or store clerk, bookkeeper, mail clerk, office worker, secretary, typist, etc.
④	④	PROFESSIONAL: teacher, doctor, engineer, lawyer, social worker, public accountant, musician, dentist, writer, registered nurse, artist, librarian, scientist, etc.
⑤	⑤	MANAGER OR OWNER: store or office manager, banker, business or farm owner, government official, real estate or insurance sales, sales manager, factory supervisor, retail store owner, contractor, wholesaler, etc.
⑥	⑥	HOMEMAKER
⑦	⑦	Unemployed
⑧	⑧	Not Living
⑨	⑨	I don't know

PLEASE GO ON TO THE NEXT PAGE

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                                  OHIO DEPARTMENT [illegible] EDUCATION
                                DIVISION OF PLANNIN[illegible]ND EVALUATION

                              OHIO STATEWIDE ASSESSMENT - SPRING 1978

                                           "4TH GRADE MATH"

                                                  RACE

                               ABSOLUTE          RELATIVE          CUMULATIVE
     CATEGORY LABEL            FREQUENCY        PERCENTAGE         PERCENTAGE

     NO RESPONSE                  91               2.8                2.8
     BLACK/NEGRO                 404              12.4               15.2
     WHITE/CAUCASIAN            2697              82.9               98.1
     AMERICAN INDIAN               6                .2               98.3
     ASIAN                        27                .8               99.1
     HISPANIC                     28                .9              100.0

                      TOTAL     3253             100.0

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                                                  SEX

                               ABSOLUTE          RELATIVE          CUMULATIVE
     CATEGORY LABEL            FREQUENCY        PERCENTAGE         PERCENTAGE

     NO RESPONSE                  61               1.9                1.9
     MALE                       1628              50.0               51.9
     FEMALE                     1564              48.1              100.0

                      TOTAL     3253             100.0

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OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

RACE

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE
NO RESPONSE		10	.3	.3
BLACK/NEGRO		249	8.6	8.9
WHITE/CAUCASIAN		2584	89.5	98.4
AMERICAN INDIAN		4	.1	98.5
ASIAN		18	.6	99.1
HISPANIC		22	.9	100.0
	TOTAL	2887	100.0	

SEX

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE
NO RESPONSE		4	.1	.1
MALE		1337	46.3	46.4
FEMALE		1546	53.6	100.0
	TOTAL	2887	100.0	

QUESTION 44

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCORE
NO RESPONSE		8	.3	.3	.44
1 SEMESTER OR LESS		26	.9	1.2	.62
1 YEAR		450	15.6	16.8	.66
2 YEARS		853	29.5	46.3	.73
3 YEARS		823	28.5	74.8	.81
4 YEARS		727	25.2	100.0	.89
	TOTAL	2887	100.0		

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE MATH"

QUESTION 46

CATEGORY LABEL	ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCORE
NO RESPONSE	12	.4	.4	.59
COLLEGE PREPARATORY	1880	65.1	65.5	.81
BUSINESS OR COMMERCIAL	995	34.5	100.0	.73
VOCATIONAL EDUCATION	0	.0	100.0	
AGRICULTURE	0	.0	100.0	
GENERAL	0	.0	100.0	
TOTAL	2887	100.0		

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

RACE

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE
NO RESPONSE		20	.7	.7
BLACK/NEGRO		299	10.3	11.0
WHITE/CAUCASIAN		2558	87.8	98.8
AMERICAN INDIAN		8	.3	99.1
ASIAN		12	.4	99.5
HISPANIC		18	.5	100.0
	TOTAL	2915	100.0	

SEX

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE
NO RESPONSE		8	.3	.3
MALE		1450	49.7	50.0
FEMALE		1457	50.0	100.0
	TOTAL	2915	100.0	

QUESTION 45

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCORE
NO RESPONSE		34	1.2	1.2	.51
YES		515	17.7	18.9	.67
NO		2366	81.1	100.0	.61
	TOTAL	2915	100.0		

OHIO DEPARTMENT [illegible] EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

QUESTION 86

CATEGORY LABEL	ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCORE
NO RESPONSE	9	.3	.3	.61
2 YEARS OR LESS	249	8.5	8.8	.49
3 YEARS	794	27.2	36.0	.54
4 YEARS	817	28.0	64.0	.60
5 YEARS	586	20.1	84.1	.69
6 YEARS	460	15.9	100.0	.75
TOTAL	2915	100.0		

QUESTION 87

CATEGORY LABEL	ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCORE
NO RESPONSE	6	.2	.2	.40
EXCELLENT	117	4.0	4.2	.78
ABOVE AVERAGE	643	22.1	26.3	.72
AVERAGE	1856	63.7	90.0	.58
POOR	262	9.0	99.0	.55
VERY POOR	31	1.0	100.0	.47
TOTAL	2915	100.0		

QUESTION 88

CATEGORY LABEL	ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCORE
NO RESPONSE	9	.3	.3	.58
EXCELLENT	401	13.8	14.1	.70
ABOVE AVERAGE	1123	38.5	52.6	.66
AVERAGE	1290	44.3	96.9	.56
POOR	84	2.9	99.8	.54
VERY POOR	8	.2	100.0	.50
TOTAL	2915	100.0		

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

QUESTION #9

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCO
NO RESPONSE		12	.4	.4	.52
YES		572	19.6	20.0	.65
NO		2331	80.0	100.0	.61
	TOTAL	2915	100.0		

QUESTION #10

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCO
NO RESPONSE		16	.5	.5	.51
YES		782	26.8	27.3	.70
NO		2117	72.7	100.0	.58
	TOTAL	2915	100.0		

QUESTION #11

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCO
NO RESPONSE		8	.3	.3	.41
NOT AT ALL		713	24.5	24.8	.60
SLIGHTLY		764	26.2	51.0	.62
A FAIR AMOUNT		822	28.2	79.2	.61
TO A LARGE EXTENT		481	16.5	95.7	.65
TOTALLY		127	4.3	100.0	.58
	TOTAL	2915	100.0		

OHIO DEPARTMENT [illegible]DUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE SCIENCE"

QUESTION 112

CATEGORY LABEL	ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCORE
NO RESPONSE	4	.1	.1	.36
NOT AT ALL	125	4.3	4.4	.51
SLIGHTLY	593	20.3	24.7	.57
A FAIR AMOUNT	1233	42.3	67.0	.60
TO A LARGE EXTENT	757	26.0	93.0	.68
TOTALLY	203	7.0	100.0	.68
TOTAL	2915	100.0		

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978

"12TH GRADE ENGLISH"

RACE

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE
NO RESPONSE		28	.9	.9
BLACK/NEGRO		269	9.0	9.9
WHITE/CAUCASIAN		2637	88.7	98.6
AMERICAN INDIAN		11	.4	99.0
ASIAN		15	.5	99.5
HISPANIC		11	.5	100.0
	TOTAL	2973	100.0	

SEX

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE
NO RESPONSE		25	.8	.8
MALE		1389	46.7	47.5
FEMALE		1559	52.5	100.0
	TOTAL	2973	100.0	

QUESTION 44

CATEGORY LABEL		ABSOLUTE FREQUENCY	RELATIVE PERCENTAGE	CUMULATIVE PERCENTAGE	AVERAGE TOTAL SCORE	AVG. OPEN-ENDED SCORE
NO RESPONSE		37	1.2	1.2	.16	490
ONE YEAR		316	10.6	11.8	.55	
TWO YEARS		548	18.4	30.2	.58	
THREE YEARS		845	28.4	58.6	.55	
FOUR YEARS		1227	41.4	100.0	.62	
	TOTAL	2973	100.0			

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APPENDIX G

TWELFTH GRADE ENGLISH OPEN-ENDED QUESTION

SCORING CATEGORY COMBINATION RESULTS

As described in Chapter IV, questions 37 and 38, of the English composition test were each scored using three basic criteria. The scores were therefore broken down into parts - 37A, 37B and 37C and 38A, 38B and 38C. Parts 37A and 38C can be grouped together as assessing content treatment and thoroughness. Parts 37B and 38B can be combined since they both assess organizational skills. Parts 37C and 38A may be combined to assess knowledge of writing conventions. Combined scores for these three combinations have been calculated and are presented in the tables of this appendix.

The average combination scores for each reporting group are shown in each table. Refer to Chapter IV for a complete description of the scoring categories which were combined and for results on each individual item by reporting group.

```
                    OHIO DEPARTMENT OF EDUCATION
                DIVISION OF PLANNING AND EVALUATION

               OHIO STATEWIDE ASSESSMENT - SPRING 1978
                       "12TH GRADE ENGLISH"

      ITEM : 37A + 38C

      AVERAGE SCORE                        REPORTING GROUP
            4.14                         ALL STUDENTS

----SEX OF THE STUDENT                         ----
            4.11                         MALE
            4.21                         FEMALE

----SIZE OF THE COMMUNITY                      ----
            3.89                         1
            4.26                         2
            4.14                         3
            4.16                         4

----RACE                                       ----
            3.81                         MINORITY
            4.20                         NON-MINORITY

----SOCIO-ECONOMIC STATUS                      ----
            3.98                         LOW
            4.23                         NON-LOW

----RACE BY SOCIO-ECONOMIC STATUS              ----
            3.77                         MINORITY LOW
            4.10                         NON-MINORITY LOW
            3.85                         MINORITY NON-LOW
            4.25                         NON-MINORITY NON-LOW
```

OHIO DEPARTMENT OF EDUCATION
DIVISION OF PLANNING AND EVALUATION

OHIO STATEWIDE ASSESSMENT - SPRING 1978
"12TH GRADE ENGLISH"

ITEM # 37B + 38B

AVERAGE SCORE	REPORTING GROUP
2.79	ALL STUDENTS
----SEX OF THE STUDENT	----
2.54	MALE
3.04	FEMALE
----SIZE OF THE COMMUNITY	----
2.39	1
2.93	2
2.94	3
2.77	4
----RACE	----
2.27	MINORITY
2.87	NON-MINORITY
----SOCIO-ECONOMIC STATUS	----
2.56	LOW
2.92	NON-LOW
----RACE BY SOCIO-ECONOMIC STATUS	----
2.14	MINORITY LOW
2.69	NON-MINORITY LOW
2.43	MINORITY NON-LOW
2.95	NON-MINORITY NON-LOW

```
                         OHIO DEPARTMENT OF EDUCATION
                      DIVISION OF PLANNING AND EVALUATION

                    OHIO STATEWIDE ASSESSMENT - SPRING 1978
                             "12TH GRADE ENGLISH"

         ITEM # 37C + 38A

         AVERAGE SCORE                             REPORTING GROUP
              3.57                           ALL STUDENTS

   ----SEX OF THE STUDENT                           ----
              3.35                           MALE
              3.82                           FEMALE

   ----SIZE OF THE COMMUNITY                        ----
              3.26                           1
              3.70                           2
              3.68                           3
              3.55                           4

   ----RACE                                         ----
              2.97                           MINORITY
              3.67                           NON-MINORITY

   ----SOCIO-ECONOMIC STATUS                        ----
              3.32                           LOW
              3.72                           NON-LOW

   ----RACE BY SOCIO-ECONOMIC STATUS                ----
              2.80                           MINORITY LOW
              3.49                           NON-MINORITY LOW
              3.17                           MINORITY NON-LOW
              3.76                           NON-MINORITY NON-LOW
```

STATEWIDE STUDENT NEEDS

ASSESSMENT

1978
Mathematics
Fourth Grade

Conducted by:

Ohio Department of Education
Division of Planning and Evaluation

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INSTRUCTIONS

This test is being given for the purpose of gaining information about the mathematics skills of fourth-grade students in Ohio. It is very important that you do your best to answer each question. You should have time to try to answer all of the questions. You will probably spend about one hour taking the test.

You will mark all your answers on the answer sheet that has been given to you. After you have chosen the most correct answer for a question, find the number of the question on your answer sheet. Then fill in the circle that has the same letter as the answer you chose. Mark only one circle for each question. If you make a mistake or change your mind about an answer, erase your first mark completely. Then make a new mark.

Now, read the sample question below.

Sample 1: Candy costs 33¢ per pound. How much would 3 pounds cost?

A. $.11
B. $.69
C. $.99
D. $1.09
E. $1.29

Only the "C" answer is correct. The way to mark "C" is shown on your answer sheet. Look at your answer sheet to see how the correct answer to sample question 1 is marked.

Now look at sample question 2 below and sample question 3 on the next page. Read them carefully and mark your answer to them in sample spaces 2 and 3 on your answer sheet.

Sample 2: 15 × 5 = ________

A. 55
B. 60
C. 75
D. 95
E. 125

PLEASE GO ON TO THE NEXT PAGE

Sample 3: $\begin{array}{r} 27 \\ +\ 8 \\ \hline \end{array}$

A. 19
B. 35
C. 25
D. 45
E. 38

Since 15 times 5 is 75, you should have marked "C" beside sample space 2 on your answer sheet. In sample question 3, the answer to 27 plus 8 is 35, so "B" is the correct answer. You should have marked "B" on the answer sheet beside sample space 3. The sample answer spaces should look like this:

Sample 2: Ⓐ Ⓑ ● Ⓓ Ⓔ

Sample 3: Ⓐ ● Ⓒ Ⓓ Ⓔ

STOP **DO NOT TURN THE PAGE**
UNTIL TOLD TO DO SO

1. 26
+34

A. 50
B. 51
C. 59
D. 60
E. 61

2. 534
+268

A. 702
B. 792
C. 794
D. 802
E. 812

3. 753
+674

A. 1,326
B. 1,337
C. 1,417
D. 1,426
E. 1,427

4. 413
−348

A. 65
B. 135
C. 165
D. 166
E. 175

5. 824
−536

A. 278
B. 287
C. 288
D. 312
E. 388

6. 302
− 46

A. 166
B. 244
C. 256
D. 266
E. 346

7. 502
× 4

A. 208
B. 506
C. 908
D. 2,006
E. 2,008

8. 232
× 3

A. 265
B. 596
C. 686
D. 695
E. 696

PLEASE GO ON TO THE NEXT PAGE

9. $\begin{array}{r} 723 \\ \times \quad 4 \\ \hline \end{array}$

A. 2,192
B. 2,882
C. 2,886
D. 2,892
E. 3,292

10. $3\overline{)69}$

A. 20
B. 66
C. 24
D. 22
E. 23

11. $3\overline{)219}$

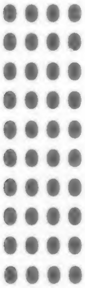
A. 13
B. 37
C. 73
D. 79
E. 613

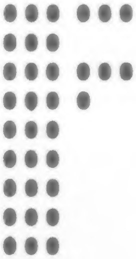
12. $4\overline{)288}$

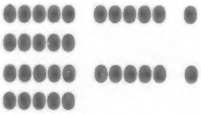
A. 62
B. 70
C. 72
D. 122
E. 702

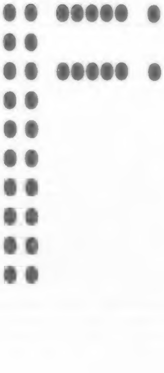
---

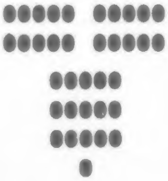
13. Which set has 36 dots?

A.


B.


C.


D.


E.


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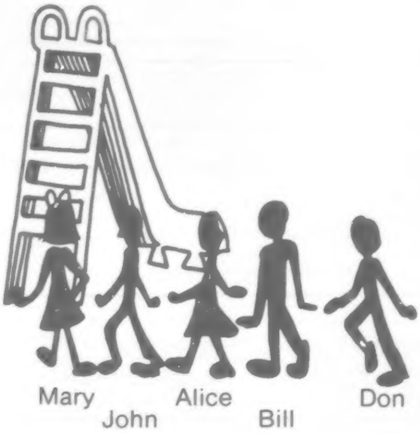
14. Which set of numerals is in order from *largest* to *smallest* in value?

A. 12, 19, 45, 36, 7
B. 7, 12, 19, 36, 45
C. 45, 19, 12, 7, 36
D. 19, 36, 7, 45, 12
E. 45, 36, 19, 12, 7

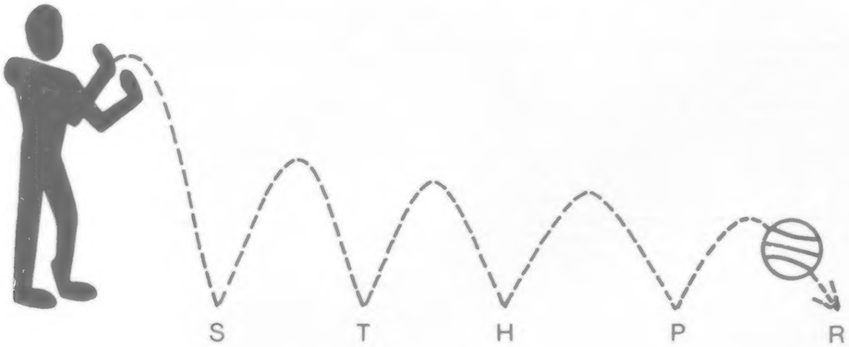
15. Which child is fourth in line to use the slide?

A. Bill
B. Don
C. Mary
D. Alice
E. John



16. The boy pictured below just threw the ball. At which point is the third bounce?

A. S
B. T
C. H
D. P
E. R



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17. Round 786 to the nearest ten. The answer is:

A. 790
B. 785
C. 780
D. 800
E. 810

18. $\frac{1}{5} + \frac{2}{5} =$

A. $\frac{3}{25}$

B. $\frac{3}{10}$

C. $\frac{1}{5}$

D. $\frac{3}{5}$

E. 3

19. $$\begin{array}{r} \frac{3}{7} \\ + \frac{2}{7} \\ \hline \end{array}$$

A. $\frac{1}{7}$

B. $\frac{6}{49}$

C. $\frac{6}{7}$

D. $\frac{5}{14}$

E. $\frac{5}{7}$

PLEASE GO ON TO THE NEXT PAGE

20. $\frac{5}{9} - \frac{3}{9} =$

A. $\frac{2}{9}$
B. $\frac{4}{6}$
C. $\frac{2}{18}$
D. $\frac{8}{9}$
E. $\frac{3}{0}$

21. $\frac{6}{7} - \frac{3}{7} =$

A. $\frac{3}{14}$
B. $\frac{1}{4}$
C. 3
D. $\frac{3}{0}$
E. $\frac{3}{7}$

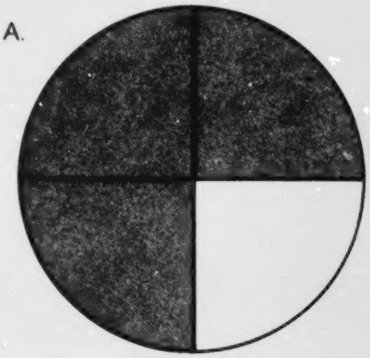
22. In the number 3,892, the value of the 3 is

A. 3
B. 30
C. 300
D. 3,000
E. hundreds

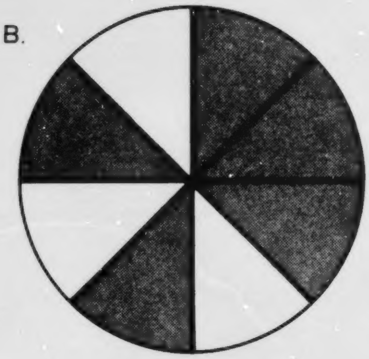
PLEASE GO ON TO THE NEXT PAGE

23. Which figure below shows $\frac{5}{8}$ of the whole shaded?

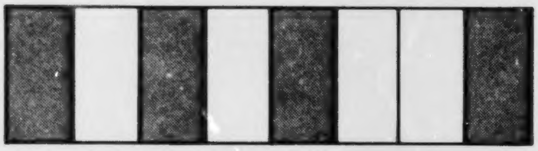
A.



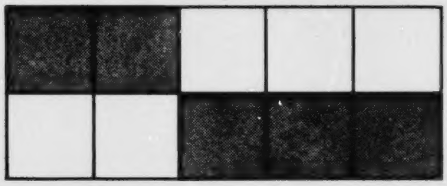
B.



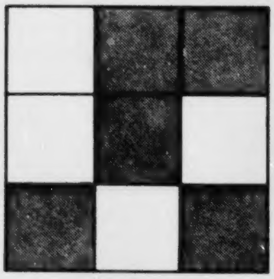
C.



D.

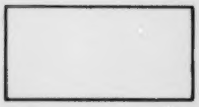


E.

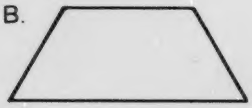


24. Which is a triangle?

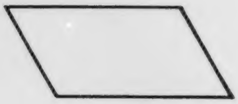
A.



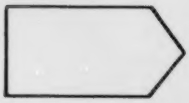
B.



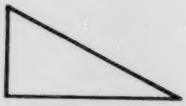
C.



D.



E.



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25. Which number is three hundred fifty two?

A. 253
B. 352
C. 3,052
D. 30,052
E. 300,502

26. The unit to use in measuring the distance between cities is

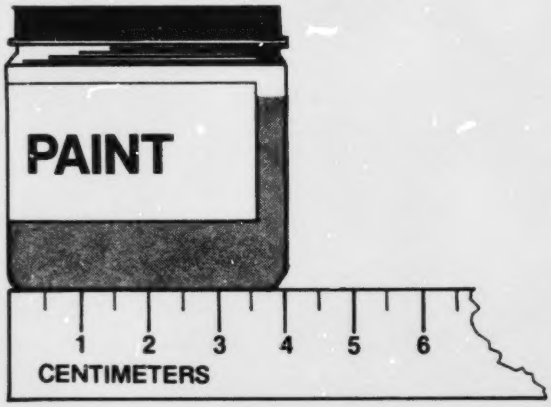
A. kilometers
B. meters
C. millimeters
D. dekameters
E. centimeters

27. A scale weighs *you* in what units?

A. yards
B. tons
C. feet
D. pounds
E. inches

28. How wide is this jar of paint to the nearest centimeter?

A. 3 cm
B. $3\frac{1}{2}$ cm
C. 4 cm
D. $4\frac{1}{2}$ cm
E. 5 cm



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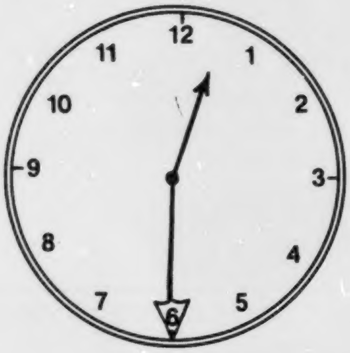
29. Which is true?

A. $3>4$
B. $3=4$
C. $9<6$
D. $3\neq3$
E. $7>4$

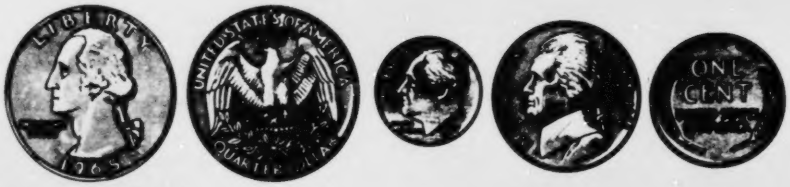
30. What time is shown on the clock below?

A. 1:30
B. 6:05
C. 6:55
D. 12:30
E. 1:06


12
1
2
3
4
5
6
7
8
9
10
11

31. What is the total value of these coins?

A. 5¢
B. 26¢
C. 41¢
D. 61¢
E. 66¢


LIBERTY
1965
UNITED STATES OF AMERICA
QUARTER DOLLAR
ONE CENT

32. In the number 3,892, the place value of the 9 is

A. ones
B. nine
C. tens
D. hundreds
E. thousands

PLEASE GO ON TO THE NEXT PAGE

33. What fractional part of this set is shaded?

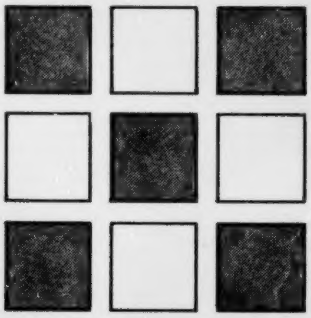
A. $\frac{4}{9}$

B. $\frac{1}{2}$

C. $\frac{5}{10}$

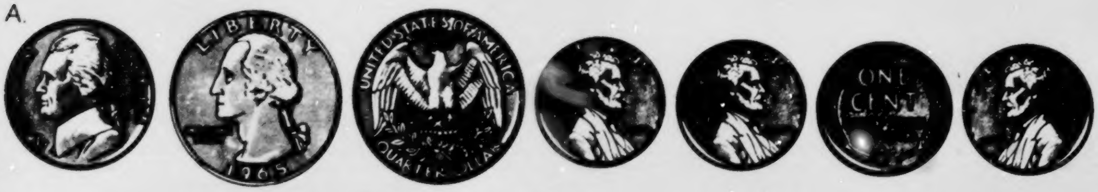
D. $\frac{5}{9}$

E. $\frac{5}{4}$

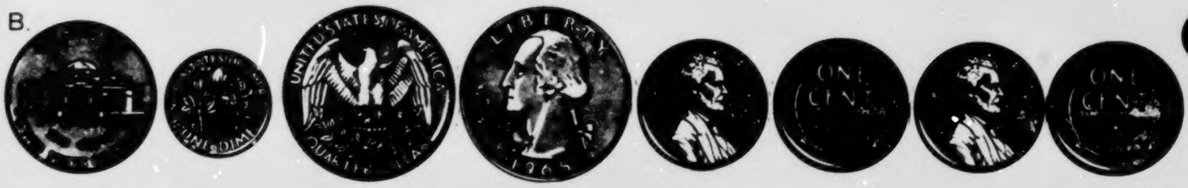


34. You want to buy a bag of candy for 59¢. Which picture shows the exact amount of money you need?

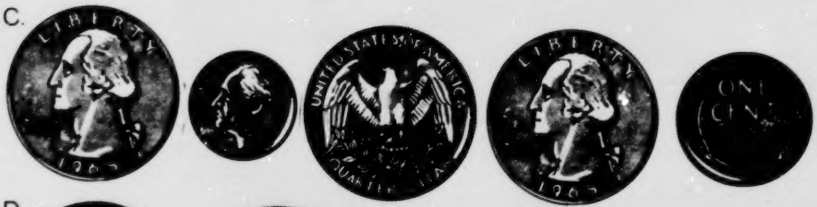
A.



B.



C.



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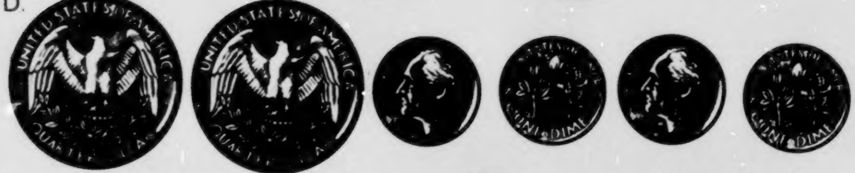
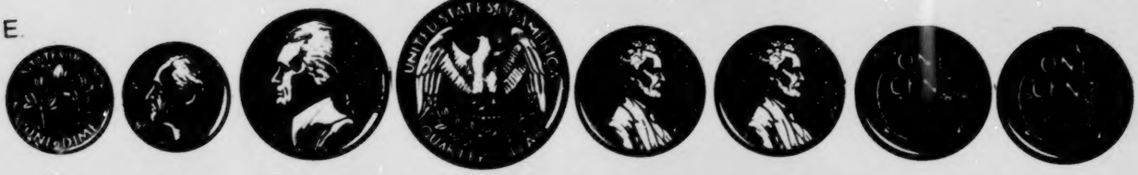


E.



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35. You buy some pencils that cost 47¢. How much change do you get from $1.00?

A. 34¢
B. 43¢
C. 53¢
D. 54¢
E. 63¢

36. You want to cut a twelve foot board into three equal parts. How long is each part?

A. 1 ft.
B. 2 ft.
C. 3 ft.
D. 4 ft.
E. 5 ft.

37. Jay rode his bicycle on a three-day camping trip. He rode 23 miles the first day, 19 miles the second day and 34 miles the third day. How far did he travel?

A. 42 miles
B. 57 miles
C. 66 miles
D. 76 miles
E. 79 miles

38. Which words say 507?

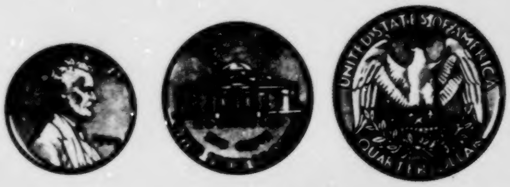
A. five hundred seven
B. fifty seven
C. seven zero five
D. five hundred seventy
E. five thousand seven

PLEASE GO ON TO THE NEXT PAGE

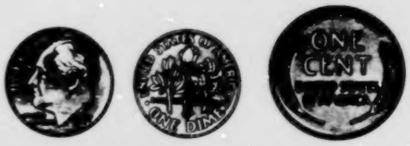
39. Which metric unit is used to measure gasoline?

A. grams
B. liters
C. kilograms
D. milliliters
E. centimeters

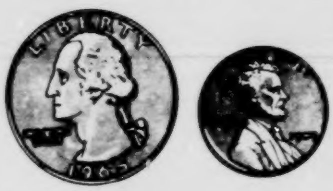
40. You buy some oranges for 69¢. Which picture shows the exact change you get if you pay for them with a one dollar bill?


UNITED STATES OF AMERICA
QUARTER DOLLAR

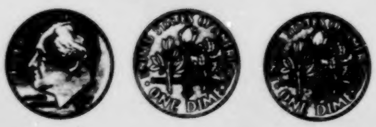
A.


ONE DIME
ONE CENT

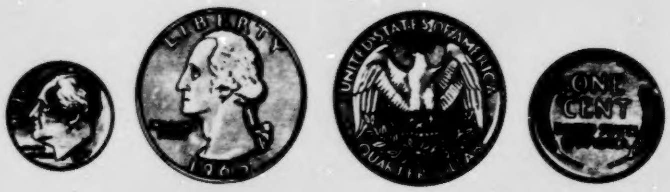
B.



C.


ONE DIME
ONE DIME

D.

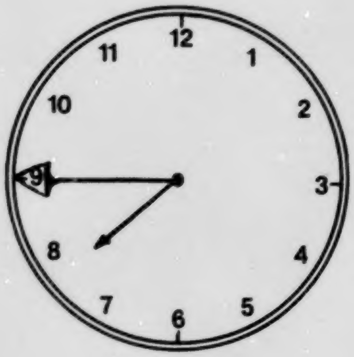

LIBERTY
UNITED STATES OF AMERICA
QUARTER DOLLAR
ONE CENT

E.

PLEASE GO ON TO THE NEXT PAGE

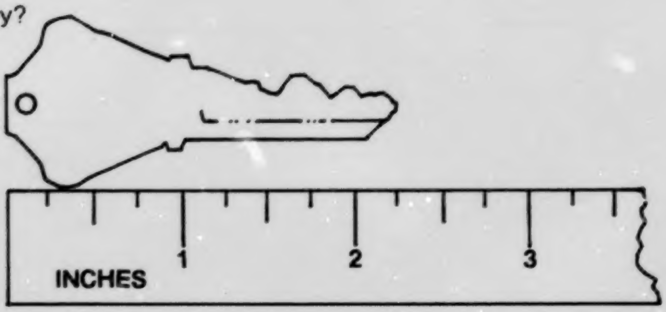
41. What time is shown on the clock below?

A. 7:15
B. 8:15
C. 8:45
D. 9:40
E. 7:45



42. What is the length of this key?

A. 2 inches
B. $2\frac{1}{9}$ inches
C. $2\frac{1}{4}$ inches
D. $2\frac{1}{2}$ inches
E. $3\frac{3}{4}$ inches

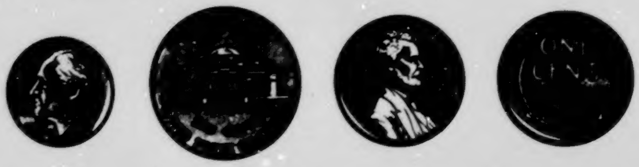


43. Which numeral should be put in the box to make the statement true?
$15 - \square = 8$

A. 6
B. 7
C. 8
D. 13
E. 23

44. What is the total value of these coins?

A. 17¢
B. 37¢
C. 4¢
D. 15¢
E. 32¢



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45. Which of the numerals below will make this statement true? $9 > \underline{\qquad}$

A. 18
B. 7
C. 3×3
D. 10
E. 9

46. Which is the largest unit of measure?

A. pint
B. gallon
C. quart
D. cup
E. teaspoon

47. Which numeral should be put in the box to make the statement true?
$9 \times \square = 54$

A. 6
B. 8
C. 9
D. 45
E. 63

48. Which number probably comes next? 3, 6, 9, ___

A. 10
B. 11
C. 12
D. 13
E. 14

PLEASE GO ON TO THE NEXT PAGE

49. Which date is 2 weeks after April 3?

A. April 5
B. April 10
C. April 16
D. April 17
E. April 24

APRIL

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23 30	24	25	26	27	28	29

50. $.37 + $.68 =

A. $.95
B. $.97
C. $1.05
D. $1.06
E. $1.15

51. $ .75
+ .46

A. $1.11
B. $1.21
C. $1.23
D. $2.21
E. $2.22

52. On which day of the week is March 10?

A. Thursday
B. Friday
C. Wednesday
D. Tuesday
E. Saturday

MARCH

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

PLEASE GO ON TO THE NEXT PAGE

53. $3.01
− .58

A. $2.43
B. $2.47
C. $2.53
D. $3.43
E. $3.59

54. $1.87
− 1.69

A. $.16
B. $.18
C. $.22
D. $.28
E. $1.18

55. If 12 × 13 × 9 = 1,404, then 9 × 13 × 12 = ________

A. 117
B. 986
C. 1,404
D. 4,041
E. 12,636

56. You and three friends buy a pizza. It costs $3.60. How much should each person pay to share the cost equally?

A. $.75
B. $.80
C. $.90
D. $1.20
E. $1.30

PLEASE GO ON TO THE NEXT PAGE

57. If you buy your dog a $2.35 box of dog food each week for six weeks, how much money have you spent on dog food?

A. $12.10
B. $12.80
C. $13.80
D. $14.10
E. $23.50

58. Which set of numerals is in order from *smallest* to *largest* in value?

A. 13, 25, 83, 51, 112
B. 13, 25, 51, 83, 112
C. 51, 25, 13, 112, 83
D. 112, 13, 51, 83, 25
E. 13, 51, 83, 25, 112

THE END

STATEWIDE STUDENT NEEDS
ASSESSMENT

1978

Mathematics
Twelfth Grade

Conducted by:

Ohio Department of Education
Division of Planning and Evaluation

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INSTRUCTIONS

This test is being given for the purpose of gaining information about the mathematics skills of twelfth-grade students in Ohio. It is very important that you do your best to answer each question. You should have time to try to answer all of the questions. You will probably spend about one hour taking the test.

You will mark all your answers on the answer sheet that has been given to you. After you have chosen the most correct answer for a question, find the number of the question on your answer sheet. Then fill in the circle that has the same letter as the answer you chose. Mark only one circle for each question. If you make a mistake or change your mind about an answer, erase your first mark completely. Then make a new mark.

Now, read the sample question below.

Sample 1: Bob has decided to buy a car which costs $3,000. He must have 10% of the total cost as a down payment. How much money does Bob need for a down payment?

A. $3.00
B. $30.00
C. $300.00
D. $3,000.00
E. $3,300.00

Only the "C" answer is correct. The way to mark "C" is shown on your answer sheet. Look at your answer sheet to see how the correct answer to sample question 1 is marked.

Now look at sample question 2 below and sample question 3 on the next page. Read them carefully and mark your answers to them in sample spaces 2 and 3 on your answer sheet.

Sample 2: 72 ÷ 9 = ______

A. 6
B. 7
C. 8
D. 9
E. 11

PLEASE GO ON TO THE NEXT PAGE

Sample 3: How much does the sugar weigh?

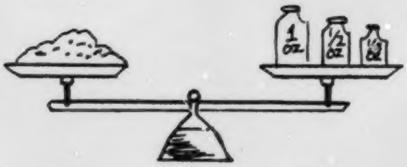
A. 2 ounces

B. $1\frac{3}{4}$ ounces

C. $1\frac{1}{2}$ ounces

D. $1\frac{1}{4}$ ounces

E. $2\frac{1}{4}$ ounces



Since 72 divided by 9 is 8, you should have marked "C" beside sample space 2 on your answer sheet. In sample question 3, the sugar is balanced by a total of $1\frac{3}{4}$ ounces, so "B" is the correct answer. You should have marked "B" on the answer sheet beside sample space 3. The sample answer spaces should look like this:

Sample 2: Ⓐ Ⓑ ● Ⓓ Ⓔ
Sample 3: Ⓐ ● Ⓒ Ⓓ Ⓔ

STOP **DO NOT TURN THE PAGE UNTIL TOLD TO DO SO**

1. $$\begin{array}{r} 534 \\ +258 \\ \hline \end{array}$$

   A. 782
   B. 791
   C. 792
   D. 892
   E. 893

2. $2378 + 25 + 403 =$

   A. 2,796
   B. 2,806
   C. 2,896
   D. 3,706
   E. 3,896

3. $406 - 139 =$

   A. 333
   B. 367
   C. 373
   D. 277
   E. 267

4. $$\begin{array}{r} 413 \\ -348 \\ \hline \end{array}$$

   A. 65
   B. 135
   C. 165
   D. 166
   E. 175

5. $94 \times 30 =$

   A. 272
   B. 282
   C. 2,720
   D. 2,770
   E. 2,820

6. $$\begin{array}{r} 206 \\ \times\ 14 \\ \hline \end{array}$$

   A. 1,030
   B. 2,684
   C. 2,864
   D. 2,884
   E. 21,424

7. $7\overline{)2156}$

   A. 308
   B. 37 with 6 remainder
   C. 38
   D. 307 with 6 remainder
   E. 298

8. $804 \div 4 =$

   A. 21
   B. 41
   C. 101
   D. 201
   E. 401

PLEASE GO ON TO THE NEXT PAGE

9. Joe's doctor wanted him to take medicine four times a day for an entire week. Each time Joe had to take three pills. How many pills does Joe need for the week?

A. 12
B. 21
C. 49
D. 84
E. 588

10. In the number 728,456, what digit is in the ten thousands place?

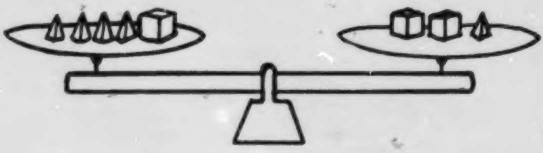
A. 2
B. 4
C. 5
D. 7
E. 8

11. What place value does the "5" hold in 2.159?

A. tens
B. tenths
C. hundreds
D. thousandths
E. hundredths

12. What is the weight of △ if ☐ is one pound?

A. $\frac{1}{2}$ pound
B. $\frac{1}{3}$ pound
C. $1\frac{1}{2}$ pounds
D. 2 pounds
E. 3 pounds



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13. 8.4 + .03 + .109 =

A. .196
B. 1.960
C. 8.539
D. 8.612
E. 9.520

14. 7 × (4 × 3) =

A. 33
B. 84
C. 12
D. 588
E. 49

15. 28.7 − 1.09 =

A. 17.80
B. 18.80
C. 27.61
D. 27.79
E. 39.60

16. 879.63 − 54.2 =

A. 82.543
B. 336.63
C. 825.43
D. 874.21
E. 8742.1

17. .07 × .8 =

A. .056
B. .063
C. .56
D. 5.6
E. 56

18. $\begin{array}{r} 2.06 \\ \underline{\times\ .14} \end{array}$

A. .2684
B. .2884
C. 2.864
D. 10.30
E. 28.84

19. $.07\overline{)2.156}$

A. .308
B. 3.8
C. 30.8
D. 38
E. 308

20. $1.2\overline{)84}$

A. .7
B. 7
C. 70
D. 80
E. 700

PLEASE GO ON TO THE NEXT PAGE

21. $\frac{1}{2}+\frac{1}{3}=$

A. $\frac{1}{6}$

B. $\frac{2}{6}$

C. $\frac{2}{5}$

D. $\frac{2}{3}$

E. $\frac{5}{6}$

22. $\frac{3}{8}+\frac{1}{2}+\frac{3}{4}=$

A. $\frac{7}{64}$

B. $\frac{7}{14}$

C. $\frac{41}{64}$

D. $1\frac{1}{4}$

E. $1\frac{5}{8}$

23. $\frac{5}{8}-\frac{3}{16}=$

A. $\frac{1}{12}$

B. $\frac{1}{8}$

C. $\frac{1}{4}$

D. $\frac{3}{16}$

E. $\frac{7}{16}$

24. $\frac{1}{4}\times\frac{2}{3}=$

A. $\frac{1}{12}$

B. $\frac{1}{6}$

C. $\frac{2}{7}$

D. $\frac{3}{8}$

E. $\frac{3}{7}$

PLEASE GO ON TO THE NEXT PAGE

25. $\frac{2}{5} \times \frac{3}{4} =$

A. $\frac{3}{10}$

B. $\frac{1}{4}$

C. $\frac{5}{20}$

D. $\frac{8}{15}$

E. $\frac{120}{20}$

26. Convert $\frac{44}{5}$ to a mixed number.

A. $8\frac{2}{5}$

B. $8\frac{4}{5}$

C. 9

D. $9\frac{1}{5}$

E. 10

27. John ate $\frac{1}{2}$ of a large pizza and Jennifer ate $\frac{1}{3}$ of it. Together they ate what part of the whole pizza?

A. $\frac{1}{6}$

B. $\frac{2}{6}$

C. $\frac{2}{5}$

D. $\frac{2}{3}$

E. $\frac{5}{6}$

PLEASE GO ON TO THE NEXT PAGE

28. Express .375 as a fraction in lowest terms.

A. $\frac{75}{300}$

B. $\frac{3}{8}$

C. $\frac{71}{200}$

D. $\frac{3}{4}$

E. $\frac{5}{16}$

29. $\frac{4}{5}$ expressed as a decimal is:

A. .08
B. .40
C. .50
D. .75
E. .80

30. 8 is what percent of 32?

A. $\frac{1}{4}\%$

B. 8%
C. 20%
D. 25%
E. 32%

PLEASE GO ON TO THE NEXT PAGE

501

31. If a coat originally sells for $120.00 and is on sale for 20% off, what is the sale price of the coat?

A. $24.00
B. $60.00
C. $96.00
D. $100.00
E. $108.00

32. If the sales price of a car is $5000 and the state sales tax rate is 4%, how much sales tax would have to be paid on the purchase of the car?

A. $2.00
B. $12.50
C. $20.00
D. $125.00
E. $200.00

33. The Bucks have won 80 out of 120 games played this season. What fraction of the games played did the Bucks win?

A. $\frac{1}{3}$
B. $\frac{1}{2}$
C. $\frac{2}{3}$
D. $\frac{3}{4}$
E. $\frac{5}{6}$

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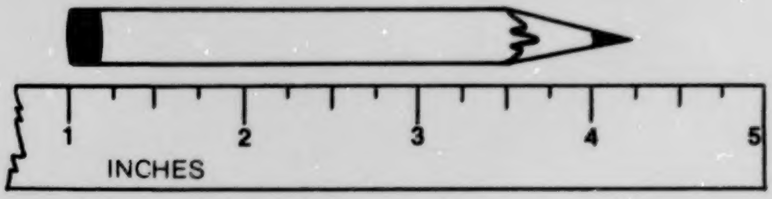
34. The end of the ruler is broken so the end of the pencil is placed at the one inch mark. Determine the length of the pencil to the nearest $\frac{1}{4}$ inch.



- A. $2\frac{1}{5}$ inches
- B. $2\frac{1}{4}$ inches
- C. $2\frac{3}{4}$ inches
- D. $3\frac{1}{4}$ inches
- E. $3\frac{1}{2}$ inches

35. There are 206 tomato plants in each row and there are 14 rows. How many tomato plants are there all together?

- A. 1,030
- B. 2,684
- C. 2,864
- D. 2,884
- E. 21,424

36. Joe is taller than Cassie. Cassie is shorter than Jill. Jill is shorter than Nathan. Which statement below is true?

- A. Joe is shorter than Nathan.
- B. Both Joe and Cassie are taller than Nathan.
- C. Jill is taller than Joe.
- D. Joe is taller than Nathan.
- E. Nathan is taller than both Jill and Cassie.

PLEASE GO ON TO THE NEXT PAGE

37.
$$\begin{array}{r} 237.8 \\ 2.5 \\ +\ 40.3 \\ \hline \end{array}$$

A. 280.6
B. 370.6
C. 27.96
D. 2896
E. 2806

38. A tree farmer plans to plant 804 trees on 4 acres. This is how many trees per acre?

A. 21
B. 41
C. 101
D. 201
E. 401

39. The length of a steel tape was 54.2 meters longer than needed to hold down a tank. The tape was 879.63 meters long. What length of tape was needed?

A. 82.543 meters
B. 336.63 meters
C. 825.43 meters
D. 874.21 meters
E. 8742.1 meters

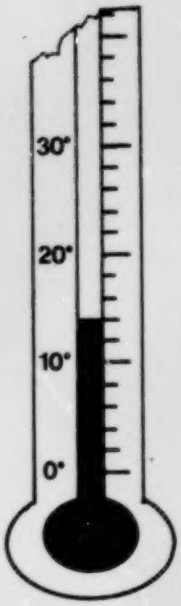
40. ______ is 30% of 90

A. $\frac{1}{3}$
B. 27
C. 30
D. 90
E. 2700

PLEASE GO ON TO THE NEXT PAGE

41. What is the temperature?

A. 10°
B. 12°
C. 14°
D. 26°
E. 30°



42. We have an appointment of 10:15 A.M. When should we leave if we allow 10 minutes to load, 40 minutes to travel, and 15 minutes to park and get to the office on time?

A. 8:10 A.M.
B. 8:30 A.M.
C. 9:10 A.M.
D. 9:50 A.M.
E. 11:20 A.M.

43. Four hours before 2:00 A.M. is

A. 10:00 P.M.
B. 10:00 A.M.
C. 6:00 A.M.
D. 6:00 P.M.
E. 8:00 P.M.

PLEASE GO ON TO THE NEXT PAGE

44. If Mary leaves home at 2:00 P.M., and her destination is 180 miles away, what is the average speed she must maintain to be able to arrive at her destination at 5:00 P.M.?

A. 45 miles per hour
B. 50 miles per hour
C. 55 miles per hour
D. 60 miles per hour
E. 65 miles per hour

45. Fred has a board that is 7 feet 10 inches long. How long is the board in inches?

A. 70
B. 80
C. 82
D. 94
E. 96

46. Ron's father is two meters tall. How many centimeters is that?

A. 200 cm
B. 400 cm
C. 600 cm
D. 800 cm
E. 1000 cm

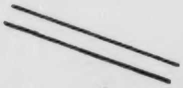
47. The symbol ml stands for which of the following?

A. milliliter
B. miles
C. meters
D. mills
E. millimeter

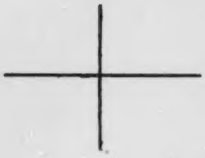
PLEASE GO ON TO THE NEXT PAGE

48. Which picture shows perpendicular line segments?

A.



B.



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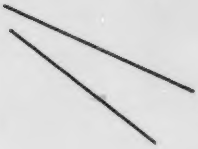

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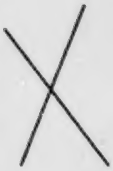
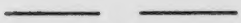


E.



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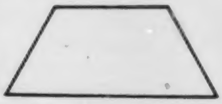
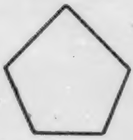
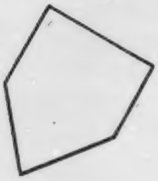
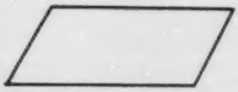
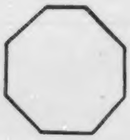
49. Which of the figures below represents an octagon?

A. 

B. 

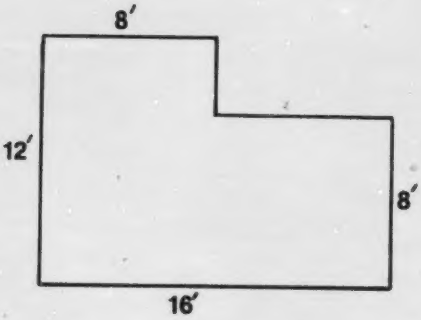
C. 

D. 

E. 

50. What is the perimeter or distance around the room pictured below?

- A. 44 ft.
- B. 48 ft.
- C. 52 ft.
- D. 56 ft.
- E. 192 ft.



PLEASE GO ON TO THE NEXT PAGE

51. How much do the grapes weigh to the nearest $\frac{1}{2}$ pound?

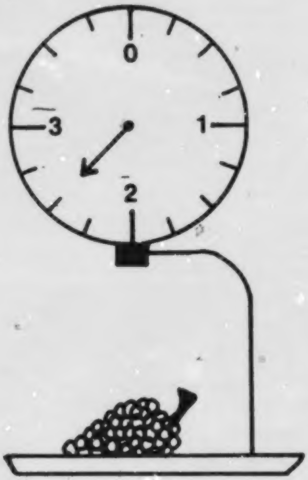
A. $1\frac{1}{2}$ pounds

B. 2 pounds

C. $2\frac{1}{2}$ pounds

D. 3 pounds

E. $3\frac{1}{2}$ pounds

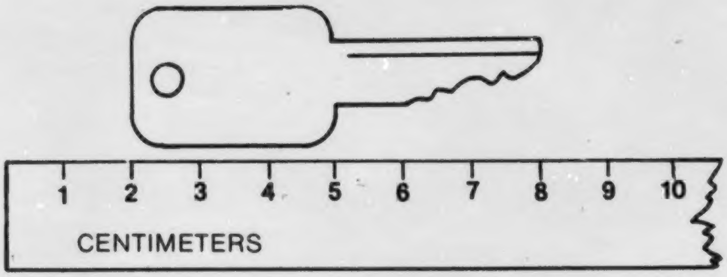


52. 10% of 25 is

A. .025
B. .25
C. 250
D. 25
E. 2.5

53. The key in the picture is about

A. 5 cm
B. 7 cm
C. 4 cm
D. 3.5 cm
E. 6 cm


1
2
3
4
5
6
7
8
9
10
CENTIMETERS

PLEASE GO ON TO THE NEXT PAGE

54. How long will it take John to drive from Columbus to Cleveland if the distance is 125 miles and he drives at an average rate of 50 miles per hour?

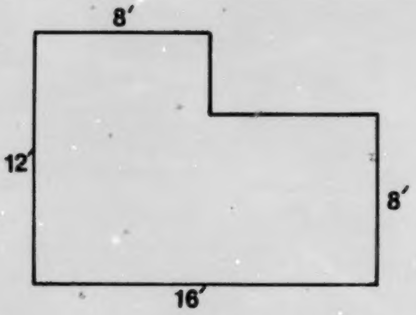
A. 2 hours
B. 2 hours 30 minutes
C. 3 hours
D. 3 hours 30 minutes
E. 3 hours and 45 minutes

55. The abbreviation tsp. usually stands for which of the following?

A. total space
B. teaspoon
C. tablespoon
D. total specific pressure
E. time sequence program

56. How many one square foot tiles would be needed to cover the room pictured below?

A. 44
B. 52
C. 56
D. 160
E. 192



57. The formula for finding the perimeter of a rectangle is $P = 2L + 2w$ where L represents the length and w represents the width of the rectangle. Find the perimeter of a rectangle whose length is 15 inches and width is 12 inches.

A. 3 inches
B. 27 inches
C. 42 inches
D. 54 inches
E. 180 inches

PLEASE GO ON TO THE NEXT PAGE

58. What is the cost of a Black and White film size 110-12 with processing included?

A. $1.09
B. $1.75
C. $2.29
D. $2.99
E. $3.29

Film Sale

Size	B&W (film only)	Color (film only)	B&W with processing	Color with processing
126-12	$ .75	$1.25	$2.29	$3.29
126-20	1.09	1.65	2.99	4.29
110-12	.75	1.25	2.29	3.29
110-20	1.09	1.65	2.99	4.29
135-20	1.19	1.75	3.19	4.79
135-36	1.65	2.99	5.39	7.79

ADDED SPECIAL Color prints from negatives 22¢ each

59. The total cost of 8 spark plugs was $10.32. What was the cost of each plug?

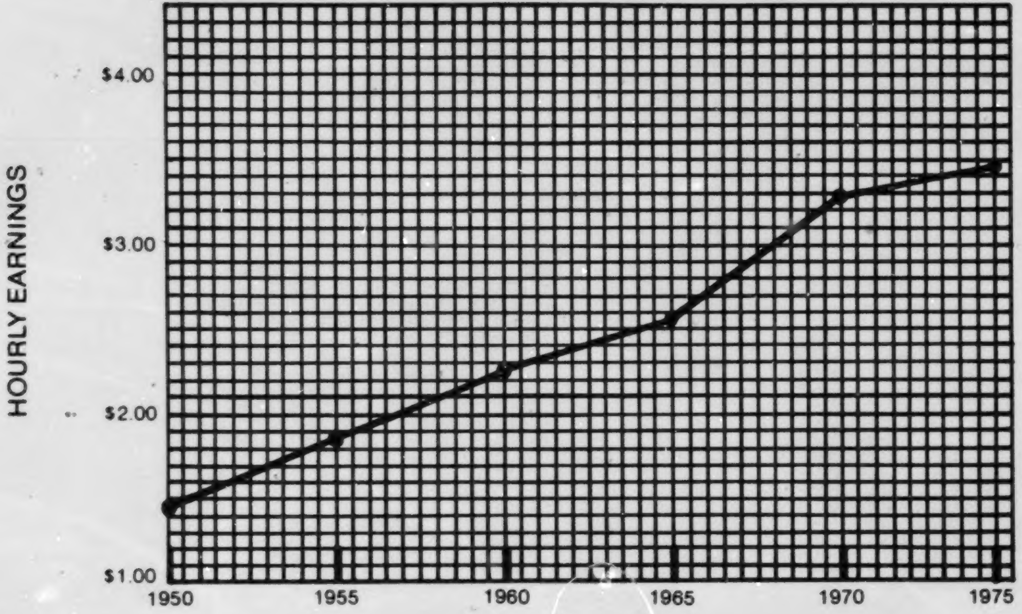
A. $1.29
B. $1.40
C. $1.68
D. $18.32
E. $82.56

PLEASE GO ON TO THE NEXT PAGE

60. According to the graph below, in what five year period did the hourly earnings in the manufacturing industry increase the most?

A. 1950-1955
B. 1955-1960
C. 1960-1965
D. 1965-1970
E. 1970-1975

GROSS HOURLY EARNINGS IN THE MANUFACTURING INDUSTRY



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61. Joe purchased merchandise costing $3.54 and gave the clerk a $5.00 bill. His change should be.

A. 1—$1.00 bill
1—quarter
2—dimes
1—penny

B. 2—$1.00 bills
2—quarters
1—penny
1—dime

C. 1—$1.00 bill
2—quarters
1—nickel
1—penny

D. 1—$1.00 bill
1—quarter
1—nickel
1—penny

E. 1—$1.00 bill
2—quarters
1—penny

62. A local discount house found they had too many of their $11.00 calculators in inventory. They reduced the price by 25% in order to reduce the inventory. What was the new selling price?

A. $2.75
B. $6.60
C. $8.25
D. $9.00
E. $10.87

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63. Find ☐ so that the equation is true.
$4 \times \square = 36$

A. 7
B. 9
C. 8
D. 32
E. 40

64. The price of a used automobile is \$2,685. What is the tax on this car if the tax rate is 4%.

A. \$87.40
B. \$107.40
C. \$117.40
D. \$1,074.00
E. \$2,892.40

65. Record albums are on sale at 3 for \$8.85. How much would 5 albums cost?

A. \$2.95
B. \$13.85
C. \$14.75
D. \$15.00
E. \$44.25

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66. How much does it cost to send a 4 pound box to zone 6?

A. $.69
B. $1.16
C. $1.19
D. $1.33
E. $1.51

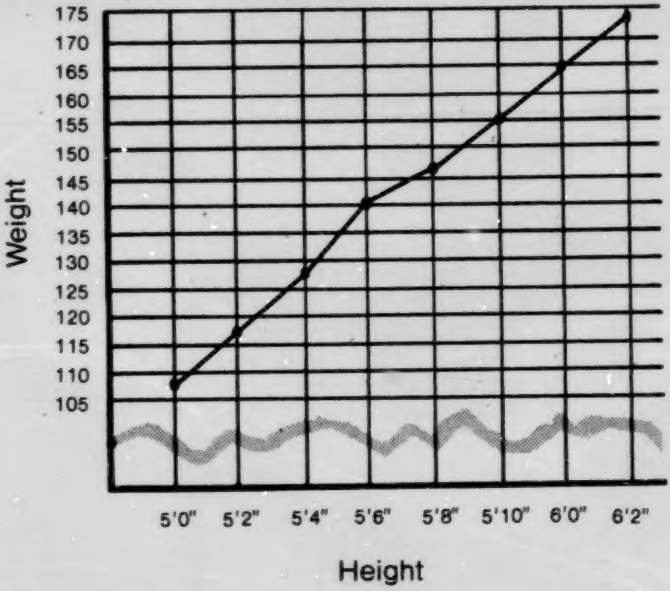
Parcel Post Zone Rates

Weight — 1 pound and not exceeding (pounds)	Zones							
	Local	1 and 2	3	4	5	6	7	8
2	$0.61	$0.72	$0.75	$ .83	$0.92	$1.02	$1.12	$1.21
3	.65	.78	83	.92	1.04	1.18	1.32	1.45
4	.69	.84	.90	1.01	1.16	1.33	1.51	1.69
5	.73	.90	.98	1.10	1.28	1.49	1.71	1.93
6	.77	.96	1.05	1.19	1.40	1.64	1.90	2.17
7	.81	1.02	1.13	1.28	1.52	1.80	2.10	2.41
8	.85	1.08	1.20	1.37	1.64	1.95	2.29	2.65
9	.89	1.14	1.28	1.46	1.76	2.11	2.49	2.89
10	.93	1.20	1.35	1.55	1.88	2.26	2.68	3.13

67. What is the average weight for a boy 5'5" tall?

A. 110
B. 115
C. 118
D. 120
E. 133

Average Height/Weight for Boys



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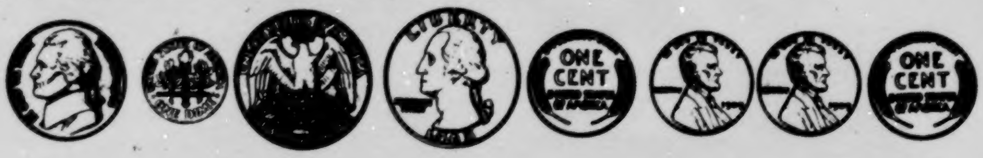
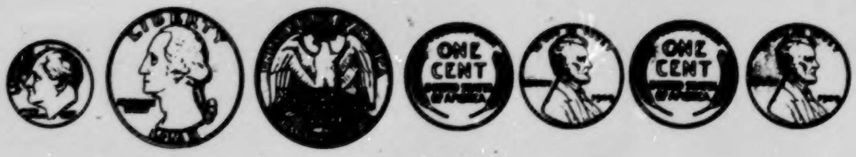
68. If you give the clerk a one dollar bill for a hamburger that costs 31¢, which one of the following groups of coins is the correct change?

A.

ONE CENT
ONE CENT

B.

ONE CENT
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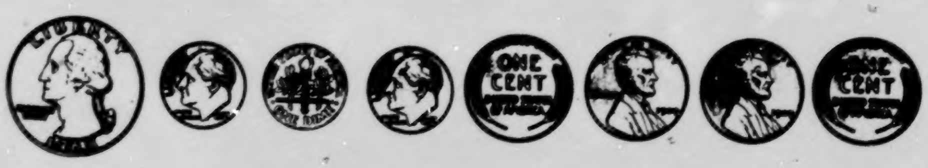
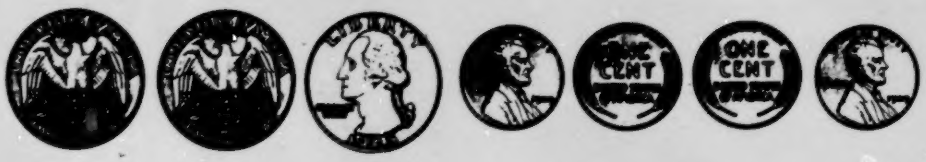
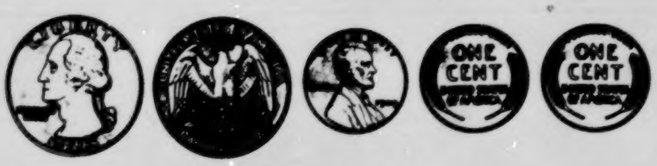
C.

ONE CENT
ONE CENT

D.

ONE CENT
ONE CENT

E.

ONE CENT
ONE CENT

69. Mark needed $74 to buy the CB radio he wanted. He already had $38. If he wants to get the CB radio in four weeks, how much must he save on the average each week in order to make his purchase?

A. $9.00
B. $11.50
C. $28.00
D. $32.00
E. $36.00

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70. A dozen oranges were sold for $1.08. What is the price per orange?

- A. 8 cents
- B. 9 cents
- C. 8.25 cents
- D. 10 cents
- E. 10.25 cents

THE END

STATEWIDE STUDENT NEEDS

ASSESSMENT

1978
Science
Twelfth Grade

Conducted by:

Ohio Department of Education
Division of Planning and Evaluation

This booklet is not to be reproduced in whole or in part without the expressed written consent of the Ohio Department of Education.

INSTRUCTIONS

This test is being given for the purpose of gaining information about the scientific literacy of twelfth-grade students in Ohio. It is very important that you do your best to answer each question. You should have time to try to answer all of the questions. You will probably spend about one hour taking the test.

You will mark all your answers on the answer sheet that has been given to you. After you have chosen the most correct answer for a question, find the number of the question on your answer sheet. Then fill in the circle that has the same letter as the answer you chose. Mark only one circle for each question. If you make a mistake or change your mind about an answer, erase your first mark completely. Then make a new mark.

Now, read the sample question below.

Sample 1: What is the basic cause for all natural movements of earth materials?

A. wind
B. water
C. gravity
D. ice
E. oxygen

Only the "C" answer is correct. The way to mark "C" is shown on your answer sheet. Look at your answer sheet to see how the correct answer to sample question 1 is marked.

Now look at sample question 2 below and sample question 3 on the next page. Read them carefully and mark your answers to them in sample spaces 2 and 3 on your answer sheet.

Sample 2: After a snowstorm 10 kilograms of snow was collected and melted. The melted water was measured on a balance. What would be the most likely result of this measurement?

A. 9 kilograms
B. 11 kilograms
C. 10 kilograms
D. 1 kilogram
E. 0.1 kilogram

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Sample 3: How much does the sugar weigh?

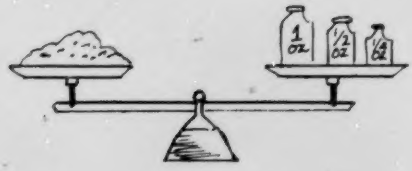
A. 2 ounces

B. $1\frac{3}{4}$ ounces

C. $1\frac{1}{2}$ ounces

D. $1\frac{1}{4}$ ounces

E. $2\frac{1}{4}$ ounces



Since the answer is 10 kilograms, you should have marked "C" beside sample space 2 on your answer sheet. In sample question 3, the sugar is balanced by a total of $1\frac{3}{4}$ ounces, so "B" is the correct answer. You should have marked "B" on the answer sheet beside sample space 3. The sample answer spaces should look like this:

Sample 2: Ⓐ Ⓑ ● Ⓓ Ⓔ
Sample 3: Ⓐ ● Ⓒ Ⓓ Ⓔ

STOP DO NOT TURN THE PAGE UNTIL TOLD TO DO SO

1. Which statement below best explains how new scientific knowledge is developed?

   A. Reading ones' horoscope and checking the almanac.

   B. Gathering information from observation and from experimentation, then interpreting this data.

   C. Checking information in textbooks and encyclopedias.

   D. Seeking information from experts.

   E. Trial and error.

2. Which of the following is necessary before a new scientific idea or explanation is accepted by scientists?

   A. There must be a two-thirds majority in favor of the idea in a vote conducted by the National Academy of Science.

   B. The idea must be described in at least five books or magazines.

   C. Evidence based on observations of real things or events must be available.

   D. The idea must be expressed in mathematical equations.

   E. The idea must agree with Darwin's Laws, Newton's Laws, and Einstein's Principles.

3. A scientist in one country reports that he has evidence of plant growth on the planet Venus. What will have to happen before most other scientists accept this report as a fact?

   A. Other scientists in other countries will have to obtain similar evidence

   B. The species of plant will have to be identified positively

   C. The government of the scientist's country will have to guarantee that the evidence is correct

   D. The United Nations will have to certify that the evidence is correct.

   E. Other scientists will have to provide evidence that there is no oxygen on Venus.

PLEASE GO ON TO THE NEXT PAGE

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4. Which statement best explains the nature of scientific conclusions?

   A. Scientific conclusions will change if the person experimenting changes.
   B. Scientific conclusions will vary from country to country.
   C. Scientific conclusions will change if different units of measurement are used.
   D. Scientific conclusions will remain the same if conditions are the same.
   E. Scientific conclusions depend upon the kind of computer used.

5. Imagine that several scientists obtained some new evidence that does not fit an accepted theory. Which one of the following questions will most likely be asked by people thinking scientifically?

   A. Shall we keep the theory as it is, since the new evidence does not help it?
   B. Can the evidence be changed a little so that it will fit the theory?
   C. Shall we throw out the theory and begin again since the evidence is against it?
   D. Can the theory be changed a little so that the new evidence will fit it?
   E. Shall we keep the theory and do what we can to keep too many people from seeing the new evidence?

6. Of the following, which is the best statement about scientific knowledge?

   A. Statements are not accepted as scientific knowledge until they are known to be absolutely true.
   B. A large amount of today's scientific knowledge will be changed at some time in the future.
   C. Once a statement is accepted by scientists, it can be counted on as being correct forever.
   D. Scientific knowledge is a systematic collection of facts that can only get larger in the future.
   E. Each generation starts anew to build up its own scientific knowledge.

PLEASE GO ON TO THE NEXT PAGE

Use the data in Table I to answer questions 7, 8 and 9

TABLE I

Five groups of plants of the same species were exposed to different intervals of light and darkness for a duration of one month. At the end of the month, the average height of each plant group was recorded.

Plant Group	Condition	Average Height
I	Constant light	8 cm
II	12 hours light; 12 hours darkness	28 cm
III	6 hours light; 18 hours darkness	40 cm
IV	18 hours light; 6 hours darkness	16 cm
V	6-hour intervals of light and darkness	22 cm

7. What would one have to do to determine whether any light was needed at all for the plants in Table I to grow?

   A. Compare the growths of plant groups II and V

   B. Use a sixth plant group, keeping it in constant darkness for the first half of the month and in constant light for the last half of the month.

   C. Use a sixth plant group, keeping it in constant darkness for a month.

   D. Compare the growths of plant groups I and II

   E. Try growing the plants under various colors of light.

8. What is the experimental variable being studied? (see Table I)

   A. Age of plants

   B. Number of plants used

   C. Exposure to light and darkness

   D. Species of plant

   E. Size of seeds

PLEASE GO ON TO THE NEXT PAGE

9. If all the plants were originally of the same size, what conclusions about this kind of plant could be made from the data in Table I?

A. The plant grows tallest with long periods of darkness
B. The plant grows equally well in darkness or light
C. The plant thrives in complete darkness
D. The plant does not grow in light
E. The plant would not grow outdoors

10. Borax is a white crystalline compound known chemically as sodium tetraborate. It is one of the three important minerals that contain the element boron. Large deposits of the minerals containing boron are found in areas where lakes or inland seas have dried up. Some examples of these places are Death Valley and the Mojave Desert in California.
The major use of borax is as a flux or cleaning agent in welding and soldering metals. Which of the following is NOT true, according to the passage above?

A. Another name for borax is sodium tetraborate.

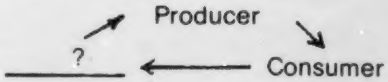
B. Borax is used to clean metals.

C. Borax is the only mineral that contains boron.

D. Borax minerals are found in California.

E. California has some areas where formerly present lakes or inland seas have now dried up.

11. Select the word which completes the pattern.



A. animal

B. plant

C. man

D. decomposer

E. weather

PLEASE GO ON TO THE NEXT PAGE

12. A flashbulb was weighed by using an ordinary simple balance and then used in taking a picture. The flashbulb did not crack when used and was weighed afterwards. How would the before and after weight measurements compare?

- A. No difference in weights.
- B. The "before" weight was greater if you took a Polaroid picture and less if you took any other type picture.
- C. The "after" weight was greater due to the formation of white powder inside the bulb.
- D. The "before" weight was greater if new batteries were used but the "after" weight was greater if the batteries were old.
- E. It is impossible to determine which was greater because things like that don't always act the same.

13. In a particular meadow there were many rabbits that ate the grass. There were also many hawks that ate the rabbits. Last year a disease broke out among the rabbits and a great number of them died. Which of the following probably occurred afterwards?

- A. The grass died and the hawk population decreased.
- B. The grass died and the hawk population increased.
- C. The grass grew taller and the hawk population decreased.
- D. The grass grew taller and the hawk population increased.
- E. Neither the grass nor the hawk population were affected by the death of the rabbits.

14. The simplest entity, whether plant or animal, that is able to maintain all life functions is

- A. a tissue.
- B. an organ.
- C. A biome.
- D. A culture.
- E. an organism.

PLEASE GO ON TO THE NEXT PAGE

15. Free oxygen can be collected by passing an electric current through water in a process called electrolysis. The amount of oxygen collected depends upon the length of time the process is continued.
There are several ways of presenting the relationship of oxygen collected to time elapsed. Which of the following presents this relationship most accurately?

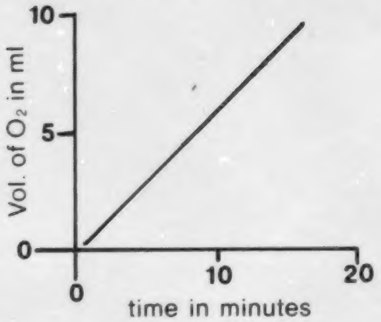
A. The amount of oxygen collected is related to elapsed time.

B. $O_2 = t$

C. $O_2\uparrow = t\downarrow$

D. The longer electrolysis proceeds, the more oxygen is collected.

E.



16. A meal consists of milk, bread and butter, meat, and cake. To satisfy the condition of good nutrition, what should be added to this meal?

A. Baked beans

B. A green or yellow vegetable

C. Cheese or eggs

D. Coffee or tea

E. Fish or dried nuts

PLEASE GO ON TO THE NEXT PAGE

17. The basic unit of all living things is

A. the cell
B. cytoplasm
C. protoplasm
D. the nucleus
E. DNA

18. In what way are the following alike?

A gallon of gasoline
A gallon of milk
A bale of hay
A stack of firewood

A. All have the sun as their original source of energy
B. All come directly from plants of one type or another
C. All are made up of exactly the same chemical elements
D. All contain the same amount of oxygen per kilogram
E. All required the same amounts of sunlight and time to develop

19. No two organisms are identical in every respect. The characteristics exhibited by a single organism, whether plant or animal, are a result of

A. genetic variation
B. species traits
C. the chemical composition of nutritional intake
D. factors in the organism's habitat
E. hereditary and environmental influences

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20. Imagine that you spent a vacation in a house on the beach five years ago. Just before you returned you took a picture from the parking lot. Last week a friend sent you a picture of the same house she had just taken from the same place. Which of the following would be most surprising?

A. The roof of the house was a different color than it was in your picture.
B. There was not as much litter on the beach as in your picture
C. The trees around the house were larger than they were in your picture
D. The parking lot had been blacktopped
E. The place was exactly the same as in your picture

21. Green plants are important to man because plants

A. produce food, fiber, and carbon dioxide
B. convert solar energy to a form usable by man
C. consume oxygen and food
D. consume food and carbon dioxide
E. consume food and give off carbon dioxide

22. If the size of the earth's orbit around the sun were doubled the

A. mean temperature at the equator would rise
B. days would be longer and nights shorter
C. nights would be longer and the days shorter
D. seasons would be longer
E. months would be shorter

23. Which of the following is NOT true of any machine?

A. It helps you get more energy out of it than you put into it.
B. It helps you increase the amount of force acting on something
C. It helps you increase the speed of doing something
D. It helps you change the direction of a force acting on something
E. It makes doing a job easier

PLEASE GO ON TO THE NEXT PAGE

Use the data in Table II to answer questions 24 and 25.

TABLE II

A ball was rolled along a flat and smooth surface. Its position was observed at the end of each second for a total of 5-seconds. The distance of the ball from its starting point is shown in the following:

Time after start (seconds)	Distance from start (meters)
1	2
2	4
3	6
4	8
5	10

24. What was the acceleration of the ball in Table II?

A. 0 meters per second per second

B. 2 meters per second per second

C. 6 meters per second per second

D. 10 meters per second per second

E. There is not enough information in Table II to say what the acceleration was

25. What was the speed of the ball during the time it was observed (See Table II)

A. two meters per second

B. four meters per second

C. six meters per second

D. eight meters per second

E. ten meters per second

PLEASE GO ON TO THE NEXT PAGE

26. Two bodies exert a gravitational force on each other. If the mass of one of the bodies were doubled, the

A. acceleration between them would decrease.

B. acceleration between them would remain constant.

C. force between them would decrease.

D. force between them would increase.

E. neither the force nor the acceleration between them would change.

27. Which of the following would not represent a natural energy flow?

A. sun — plants — animals

B. algae — small fish — large fish — man

C. sun — plants — coal

D. sun — plants — natural gas

E. sun — coal — plants

28. Which of the following statements would describe a quality of living things?

A. needs electric current to operate

B. the ability to reproduce and multiply

C. does not act in predictable ways

D. does not require energy

E. requires sunlight to reproduce

PLEASE GO ON TO THE NEXT PAGE

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29. Within the past few years, scientists have conducted experiments that result in simple organisms, such as bacteria, to produce others with new characteristics. Newspapers often refer to this in terms of "recombinant DNA." Which of the following potential problems connected with these experiments should be of most concern to the public?

A. If the experiments could be done only in a small number of laboratories with special equipment, a large number of scientists would lose their jobs and unemployment would increase.

B. If the bacteria with new characteristics "escaped" from the laboratory, other life forms might be destroyed because they would have no defense against the new bacteria.

C. If the experiments can only be done with expensive equipment and by specially trained scientists, present budget restrictions may slow down or even stop this aspect of scientific progress.

D. If the experiments become very successful, there will be an opportunity for someone to make a lot of money from the results and it would not be right to limit these profits to a few scientists.

E. If these experiments are really successful, then it is a sign that scientists have gone too far because there are some things scientists should not try to do.

30. Information about which one of the following is most important in predicting weather?

A. The available supplies of water.

B. The daily lows and highs of wind speed.

C. The daily lows and highs of temperature.

D. The daily lows and highs of humidity.

E. The movement and characteristics of air masses.

PLEASE GO ON TO THE NEXT PAGE

31. Changes such as the conversion of limestone to marble or of soft coal to hard are explained as having been brought about by which of the following?

A. sudden cooling of the material

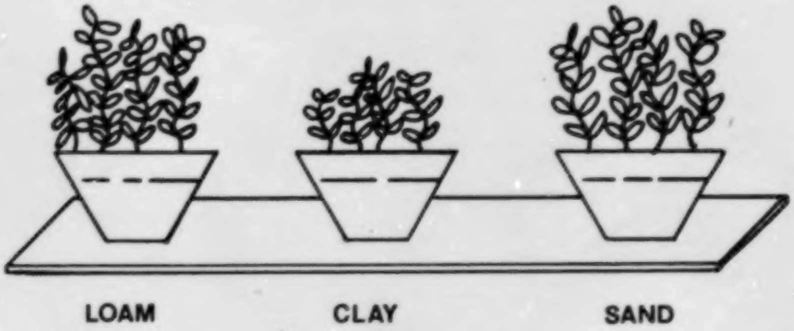
B. exposure to gases from a volcano

C. exposure to an underground river

D. the action of CO_2 from the atmosphere

E. heat and pressure below the earth's surface

32. A student wanted to learn which of three types of soil—loam, clay, or sand—would be best for growing beans. He found three flower pots, put a different type of soil in each pot, and planted the same number of beans in each, as shown in the drawing. He placed them side by side on the window sill and gave each pot the same amount of water.



Which of the following statements represents an observation?

A. Loam and sand soils are better for growing beans than is clay soil.

B. The water soaked into the sand faster than into the clay and loam.

C. The beans in the loam and sand soils must have received more sunlight than did the beans in the clay.

D. The bean plants in the clay soil are shorter than the plants in loam and in sand.

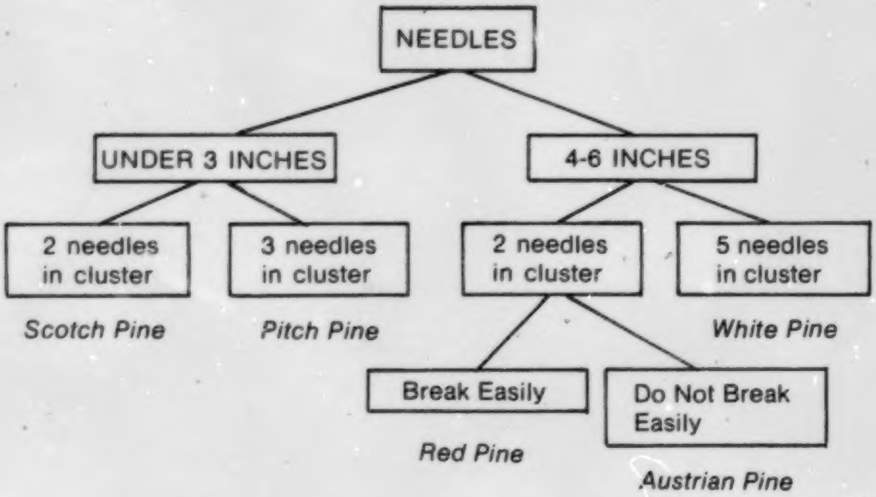
E. Any plants that are placed in the middle of other plants will not grow as well.

PLEASE GO ON TO THE NEXT PAGE

33. Which one of the following characteristics probably could NOT be used to classify all the dogs in your home county?

A. Loudness of bark
B. Length of tail
C. Color of eyes
D. Number of ears
E. Age

Use the chart below to answer question 34.


NEEDLES
UNDER 3 INCHES
4-6 INCHES
2 needles in cluster
3 needles in cluster
2 needles in cluster
5 needles in cluster
Scotch Pine
Pitch Pine
White Pine
Break Easily
Do Not Break Easily
Red Pine
Austrian Pine

34. A tree has needles 4.2 inches long, in clusters of 5, and the needles break easily. The tree might be which of the following?

A. Pitch Pine
B. Red Pine
C. Scotch Pine
D. Austrian Pine
E. White Pine

PLEASE GO ON TO THE NEXT PAGE

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35. Four of the following are statements of fact. Which statement is a hypothesis?

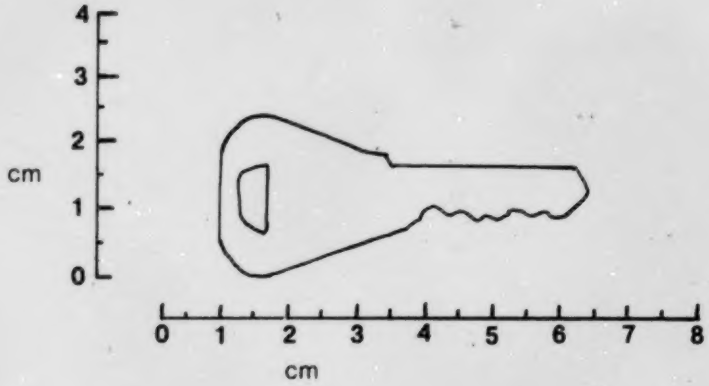
- A. The boiling point of pure water is 100° C at sea level.
- B. A gallon of water weighs about 8 pounds.
- C. Hydrogen was first prepared by Cavendish in 1766.
- D. The Empire State Building is more than 50 stories high.
- E. The rings of Saturn were probably formed from a moon that exploded.

36. If you wanted to experiment to determine how much of Brand X fertilizer to use on a lawn, which procedure would be most useful?

- A. use Brand X on one section of lawn and Brand Y on another section
- B. use the same amount of fertilizer over the whole lawn
- C. use 5 lbs./100 sq. ft. of Brand X on one section and 10 lbs./100 sq. ft. of Brand X on another section
- D. use Brand X one year and Brand Y the next year
- E. don't cut the lawn for three weeks

37. What is the approximate length of the key pictured below?

- A. 5.4 cm
- B. 2.3 cm
- C. 6 cm
- D. 6.4 cm
- E. 2 cm



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38. If you were measuring the distance between two cities which unit would be the best choice?

A. gram
B. millimeter
C. kilometer
D. kiloliter
E. kilogram

39. People were concerned about a proposal to replace a coal-powered electric generator with a nuclear-powered generator in their city. The following statements appeared in the newspapers and came from reliable sources of information.

I. Radioactivity from nuclear power can be a health hazard.
II. Nuclear-powered generators are more expensive to operate than generators powered by coal.
III. Less air pollution is produced from nuclear energy than from coal.
IV. The nuclear powered generator will decrease land values around it.

Which of the following is the best scientific conclusion based on this information?

A. there are disadvantages in both kinds of generators
B. the two kinds of generators are equally good
C. the nuclear-powered generator is the better choice
D. the coal-powered generator is the better choice
E. the decision on which is best can only be made by the power company

40. Carla went outside after school and observed that the sidewalk was wet. She then made several statements.

Which of these statements is an inference?

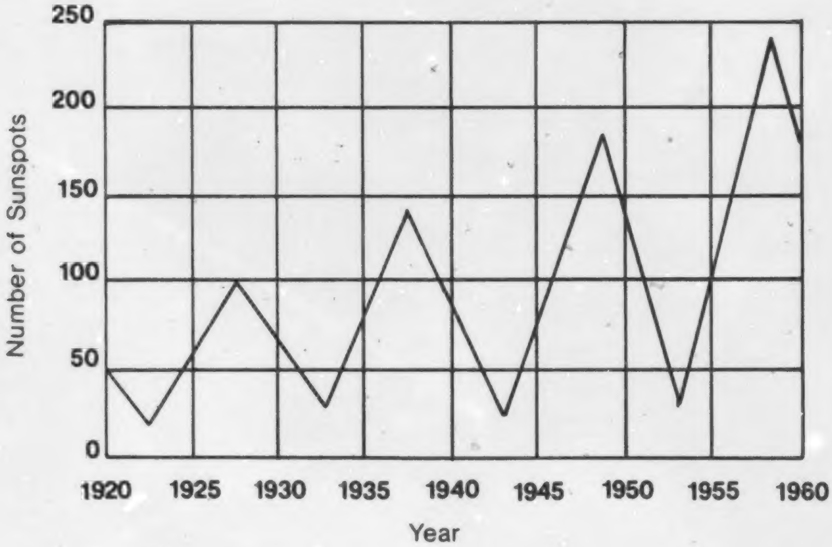
A. The sun was shining this morning
B. The grass is wet
C. The sky is cloudy
D. It is thundering
E. It has rained

PLEASE GO ON TO THE NEXT PAGE

Use the data in Table III to answer question 41.

41. On the basis of the trends indicated by the graph in Table III, the next period of high sunspot activity after 1960 probably occurred in

Table III



A. 1961
B. 1964
C. 1967
D. 1970
E. 1974

PLEASE GO ON TO THE NEXT PAGE

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42. Read the following instructions from a bottle of medicine for John Smith, a five year old child.

The instructions are:

Keep in refrigerator and shake well before using
Drink extra water
Take 2 teaspoons three times a day with water
Call doctor if fever is above 102° orally

Which one of the following statements is correct?

A. children 4-8 years take 3 teaspoons with water

B. adults take no more than 4 doses a day

C. children 4-8 years take 1 teaspoon a day with milk

D. take three times a day

E. not necessary to keep medicine in refrigerator

43. Which of the following statements best represents the contributions of science and scientists to modern society?

A. Society could not have developed without science and scientists.

B. The fast pace of changes in society are due to ongoing scientific research.

C. Although their contributions have been used, society could have progressed as well without science and scientists.

D. Society would be better off if science and scientists were less active.

E. Most of the problems facing society today are due to science and scientists.

44. Which one of the following is a *direct* observation that could be made.

A. Gases are composed of rapidly moving molecules.

B. When a flask of liquid is held over a flame the liquid begins to bubble.

C. If a stoppered flask is heated the air pressure inside the flask will increase.

D. Electrons flowing through salt water generate an electric current.

E. In most chemical changes atoms are rearranged to form new molecules.

PLEASE GO ON TO THE NEXT PAGE

45. The nature of the scientific enterprise is such that

A. the occasional appearance of a brilliant scientist is sufficient to maintain science for many years.

B. many resources such as time, money, talent, and training are required if science is to continue.

C. a large technology base is needed to support each of the activities of science.

D. no new knowledge discoveries can be expected since nearly all the important theories have already been developed.

E. it will lead to gradually decreasing scientific activity.

46. A coal-burning power plant is proposed in your area. You have heard a large number of positive and negative opinions from various interest groups. Which of the following describes the *best* approach for making your decision to support or not support its construction?

A. Rely upon the decision of elected officials

B. Examine the issues involved and try to influence the decision based on such examination

C. Ignore the situation since you, as an individual, do not make much difference toward the outcome

D. Follow the decision of people who are respected in the community

E. Take a poll of your family and friends to see how they feel about the power plant

47. Scientific progress is most advanced by

A. the careful experimenting by a scientist operating alone without distraction from others.

B. teams of researchers who carefully compile their results and protect their findings from discovery by scientists in other laboratories.

C. cooperative investigations involving the exchange of ideas and information with any other scientist who is interested.

D. the passage of time which permits the development of new ideas after people who oppose these views have retired from research.

E. involvement of nonscientists to monitor the experimentation to ensure the most efficient use of time and personnel.

PLEASE GO ON TO THE NEXT PAGE

48. Which of the following is an example in which technology contributed to scientific progress?

A. Improved telescopes were designed using a new type of glass
B. A new model for the structure of atoms was devised
C. A new butterfly was discovered in South America
D. Evidence was published to show that the common cold is caused by a virus
E. Radar waves were found to be reflected by the moon

49. Which of the following questions can be answered by doing experiments?

1 — Why was the Earth formed?
2 — What makes some people overweight?
3 — How does age affect activity of people?
4 — Why am I alive?

A. 1 and 4
B. 1 and 2
C. 2 and 4
D. 2 and 3
E. 3 and 4

50. Given sufficient time, money, and personnel, science and technology

A. can solve any problem facing society.
B. will solve few, if any, of the major problems of the present time.
C. will still face limitations on what can be accomplished.
D. will improve the attitudes of society toward all human beings.
E. would not likely be able to improve upon the present environment.

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51. Which of the following groups of words does not fit the pattern of the others?

A. rain — erosion
B. germ — illness
C. storm — lightning
D. plant — animal
E. wind — destruction

52. Which of the following has the least influence on the characteristics of living things?

A. genes
B. parents
C. diet
D. air
E. clothing

53. If suddenly you discover that the earth has lost all its gravitational force, how would it affect travel by a car?

A. cars would not need any energy to operate.
B. cars would have to be made bigger in size than the present ones.
C. cars would be able to fly with some modifications.
D. cars would not have any mechanical problems.
E. less traffic regulations would be needed.

THE END

STATEWIDE STUDENT NEEDS

ASSESSMENT

1978

English Composition
Twelfth Grade

Conducted by:

Ohio Department of Education
Division of Planning and Evaluation

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INSTRUCTIONS

This test is being given for the purpose of gaining information about the English composition skills of twelfth-grade students in Ohio. It is very important that you do your best to answer each question. You will probably spend about one hour taking the test.

The test is divided into five sections. Part A, beginning on page 2, consists of a short student questionnaire which asks you to answer questions about yourself. The questions in Parts B and C contain sentences in which you will be asked to find an error in spelling, capitalization, punctuation, or usage. In Part D the questions will present two or more sentences and then four choices of ways to combine them. You will be asked to select the best combination. Part E is designed to test your writing skills. You will be asked to write one essay and one letter and to address an envelope.

You will mark or write all of your answers in the test booklet. Be sure to use a pencil to mark or write your answers.

STOP

DO NOT TURN THE PAGE
UNTIL TOLD TO DO SO

PART A
STUDENT QUESTIONNAIRE

1. Fill in ONE circle. You are: ① male ② female

2. Fill in ONE circle. You are:
   ① Black/Negro
   ② White/Caucasian
   ③ American Indian or Alaska Native
   ④ Asian or Pacific Islander
   ⑤ Hispanic

3. How much school did your father and mother complete? Fill in ONE circle in the column labelled "Father." Then fill in ONE circle in the column labeled "Mother."

Father	Mother	
①	①	did not complete the eighth grade
②	②	completed the eighth grade but did not go to high school
③	③	went to high school but did not graduate from high school
④	④	graduated from high school (or equivalent education)
⑤	⑤	some education after graduation from high school
⑥	⑥	graduated from college
⑦	⑦	I don't know.

PLEASE GO ON TO THE NEXT PAGE

4. Which choice below comes closest to the amount of instruction in English composition you have received in grades 9 through 12. Fill in ONE circle.

Ⓐ one year
Ⓑ two years
Ⓒ three years
Ⓓ four years

5. From the list of job categories below, pick the type of work which comes closest to your father's main job and fill in the circle beside the job in the column labelled "Father."

Then pick the type of work which comes closest to your mother's main job and fill in the circle beside the job in the column labelled "Mother."

Please fill in only ONE circle in each column. If your father or mother has more than one job, pick his or her MAIN job.

Father	Mother	
①	①	SEMI-SKILLED WORKER: factory or farm worker, bus driver, gardener, waiter or waitress, gas station attendant, cook, maid, taxi driver, laborer, meat cutter, etc.
②	②	SKILLED CRAFTSMAN OR FOREMAN: carpenter, mechanic, plumber, electrician, policeman, draftsman, technician, barber, beautician, seamstress, practical nurse, surveyor, fireman, dental technician, baker, enlisted person in military, tailor, plasterer, factory foreman, etc.
③	③	OFFICE OR SALES CLERK: bank or store clerk, bookkeeper, mail clerk, office worker, secretary, typist, etc.
④	④	PROFESSIONAL: teacher, doctor, engineer, lawyer, social worker, public accountant, musician, dentist, writer, registered nurse, artist, librarian, scientist, etc.
⑤	⑤	MANAGER OR OWNER: store or office manager, banker, business or farm owner, government official, real estate or insurance sales, sales manager, factory supervisor, retail store owner, contractor, wholesaler, etc.
⑥	⑥	HOMEMAKER
⑦	⑦	Unemployed
⑧	⑧	Not Living
⑨	⑨	I don't know.

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PART B
INSTRUCTIONS

In each sentence in Part B, there is an error in either capitalization, punctuation, spelling, or usage. Decide which underlined part is an error. Then fill in the circle beneath the underlined error.

Now, read the sample sentences below.

Sample 1: Bill and i are going to get paper routes.
Ⓐ Ⓑ Ⓒ Ⓓ

Only the "B" answer is correct. The way to mark "B" is shown below.

Sample 1: Bill and i are going to get paper routes.
Ⓐ ● Ⓒ Ⓓ

Sample 2: My father, Dr. Joseph Green works at a hospital on Elm Street.
Ⓐ Ⓑ Ⓒ Ⓓ

Since a comma should be placed after "Green", "B" is the correct answer. The way to mark "B" is shown below.

Sample 2: My father, Dr. Joseph Green works at a hospital on Elm Street.
Ⓐ ● Ⓒ Ⓓ

Be sure to mark only ONE circle for each question. If you make a mistake or change your mind about an answer, erase your first mark completely and then make a new mark.

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UNTIL TOLD TO DO SO

1. The Baker Company will withhold a weeks pay, because that is company policy.

Ⓐ Ⓑ Ⓒ Ⓓ

2. Although the women in the bridge club were very talkative they still managed to

Ⓐ Ⓑ Ⓒ Ⓓ

complete thirty-two hands of bridge.

3. Steve is very lethargic when it comes to doing homework, however, he is quite

Ⓐ Ⓑ

energetic when it comes to skiing.

Ⓒ Ⓓ

4. The forger worked hard to make a copy of the famous painting: but no one offered

Ⓐ Ⓑ Ⓒ Ⓓ

to buy it.

5. The Mississippi river flows turbulently in the spring.

Ⓐ Ⓑ Ⓒ Ⓓ

PLEASE GO ON TO THE NEXT PAGE

6. The Santa Maria sailed West to the new land under Spain's flag and Columbus'
Ⓐ Ⓑ Ⓒ Ⓓ
command.

7. My three favorite subjects in high school are algebra, biology I, and French.
Ⓐ Ⓑ Ⓒ Ⓓ

8. Hypocrite is a word in our language that could be applied too almost anyone at one
Ⓐ Ⓑ Ⓒ Ⓓ
time or another.

9. He should have gave me his address before I left for summer vacation.
Ⓐ Ⓑ Ⓒ Ⓓ

10. A familiar yet frightening site to fire fighters is a cloud of black smoke.
Ⓐ Ⓑ Ⓒ Ⓓ

PLEASE GO ON TO THE NEXT PAGE

11. The schedule we recieved in February had three mistakes in it.

Ⓐ Ⓑ Ⓒ Ⓓ

12. Joe and I took a vote to see who's painting should win the prize.

Ⓐ Ⓑ Ⓒ Ⓓ

PLEASE GO ON TO THE NEXT PAGE

PART C

In each sentence in Part C, there is an error in either capitalization, punctuation, spelling, or usage. Each sentence has been divided into four parts corresponding with the circled letters to the left of each part. Decide which part of the sentence contains the error and fill in the circle to the left of that part.

Now, read the sample sentence below.

Sample: The teacher has gave all the textbooks to the students in her two classes.

Ⓐ The teacher has gave
Ⓑ all the textbooks
Ⓒ to the students
Ⓓ in her two classes.

Since "gave" should be "given", line "Ⓐ" contains the error. The way to mark "Ⓐ" is shown below.

● The teacher has gave
Ⓑ all the textbooks
Ⓒ to the students
Ⓓ in her two classes.

Proceed with question 13.

PLEASE GO ON TO THE NEXT PAGE

13. My mother sent John and I to the store for groceries for dinner tonight.

Ⓐ My mother sent
Ⓑ John and I to the store
Ⓒ for groceries
Ⓓ for dinner tonight.

14. We could have went to the game with him, but he did not know we wanted to go.

Ⓐ We could have went
Ⓑ to the game with him,
Ⓒ but he did not know
Ⓓ we wanted to go.

15. Examining the records of the bank, the auditor charged that the manager could hardly have done worse had he ran the transactions by hand instead of by computer.

in
Ⓐ Examing the records of the bank, the auditor
Ⓑ charged that the manager could hardly have done worse
Ⓒ had he ran the transactions by hand
Ⓓ instead of by computer.

16. The ladie's handbags and other accessories are on sale at Lee's Leather Shop.

Ⓐ The ladie's handbags
Ⓑ and other accessories
Ⓒ are on sale
Ⓓ at Lee's Leather Shop.

PLEASE GO ON TO THE NEXT PAGE

17. According to a recent study, the word is has become the most frequently used word in everyday conversation.

Ⓐ According to a recent study,
Ⓑ the word is has become
Ⓒ the most frequently used word
Ⓓ in everyday conversation.

18. The Bond building is located on West Third Street across the street from Hunt Hospital.

Ⓐ The Bond building is located
Ⓑ on West Third Street
Ⓒ across the street
Ⓓ from Hunt Hospital.

19. Tolstoy must have had great fortitute to write a long book like War and Peace.

Ⓐ Tolstoy must have had
Ⓑ great fortitute
Ⓒ to write a long book
Ⓓ like War and Peace.

20. In the last twenty years, few of the members of the club in our neighborhood have been baptist.

Ⓐ In the last twenty years,
Ⓑ few of the members of the club
Ⓒ in our neighborhood
Ⓓ have been baptist.

PLEASE GO ON TO THE NEXT PAGE

21. The national government and the State of Ohio has made sanctuaries where wild birds nest and feed.

Ⓐ The national government and the State of Ohio
Ⓑ has made sanctuaries
Ⓒ where wild birds
Ⓓ nest and feed.

22. She read the company's announcement which said: "We hire the qualified—irregardless of race or creed."

Ⓐ She read the company's announcement
Ⓑ which said:
Ⓒ "We hire the qualified—
Ⓓ irregardless of race or creed."

23. I was setting with a boy considerably younger than I who told me to remain seated until the others had left the room.

Ⓐ I was setting with a boy
Ⓑ considerably younger than I
Ⓒ who told me to remain seated
Ⓓ until the others had left the room.

24. Saki has written a variety of short stories, and one of my favorites is The Open Window.

Ⓐ Saki has written
Ⓑ a variety of short stories,
Ⓒ and one of my favorites
Ⓓ is The Open Window.

PLEASE GO ON TO THE NEXT PAGE

25. He lived in an environment that effected his behavior and made him unfit company for all but his few friends.

Ⓐ He lived in an environment
Ⓑ that effected his behavior
Ⓒ and made him unfit company
Ⓓ for all but his few friends.

26. Jane did such a through job of cleaning her room that her mother had no complaints.

Ⓐ Jane did such a through job
Ⓑ of cleaning her room
Ⓒ that her mother
Ⓓ had no complaints.

27. Penny, a playful dog, brought my brother Bob and me many unforgetable hours of fun while we were growing up at home.

Ⓐ Penny, a playful dog,
Ⓑ brought my brother Bob and me
Ⓒ many unforgetable hours of fun
Ⓓ while we were growing up at home.

28. Much time and labor has to be spent caring for rare and fragrant tropical plants.

Ⓐ Much time and labor
Ⓑ has to be spent
Ⓒ caring for
Ⓓ rare and fragrant tropical plants.

PLEASE GO ON TO THE NEXT PAGE

29. The attendence at James Madison High School drops immensely during the cold weather.

Ⓐ The attendence
Ⓑ at James Madison High School
Ⓒ drops immensely
Ⓓ during the cold weather.

30. When the head coach of the football team was fired during a losing streak, almost everyone, including his rival coaches and the sportswriters who covered the team, were shocked.

Ⓐ When the head coach of the football team
Ⓑ was fired during a losing streak,
Ⓒ almost everyone, including his rival coaches
Ⓓ and the sportswriters who covered the team, were shocked.

31. What the witness knew and when he knew it was among the many decisions that the jury had to make.

Ⓐ What the witness knew
Ⓑ and when he knew it
Ⓒ was among the many decisions
Ⓓ that the jury had to make.

32. Mary didn't want to loose the game, and the way she played showed it.

Ⓐ Mary didn't want
Ⓑ to loose the game,
Ⓒ and the way
Ⓓ she played showed it.

PLEASE GO ON TO THE NEXT PAGE

33. The notice I received in the mail informed me that my subscription to "Newsweek" expires October 15, 1978.

Ⓐ The notice I received
Ⓑ in the mail informed me
Ⓒ that my subscription to "Newsweek"
Ⓓ expires October 15, 1978.

PLEASE GO ON TO THE NEXT PAGE

PART D

In each of the next three items, you are given two or more sentences that are then combined into one sentence that still contains all of the previously given information. You are to select what you consider is the best solution of the four choices given and fill in the circled letter to the left of your selection.

Sample: The house needs storm windows. The house needs a roof.

Ⓐ Although the house needs storm windows, it also needs a new roof.

Ⓑ The house needs storm windows, but it also needs a new roof.

● The house needs storm windows and a new roof.

Ⓓ The house needs storm windows, and it needs a new roof.

Since "Ⓒ" is the best sentence combination you would fill in "Ⓒ" as shown above.

Proceed to question 34.

PLEASE GO ON TO THE NEXT PAGE

34. Jane's father was a teacher. He had an unusual hobby. He tied flies for trout fishing.

Ⓐ Jane's father, who tied flies for trout fishing, was a teacher with a hobby.

Ⓑ Jane's father was a teacher who had the unusual hobby of tying flies for trout fishing.

Ⓒ Jane's father, who had an unusual hobby, was a teacher and tied flies for trout fishing.

Ⓓ Jane's father, who was a teacher who had an unusual hobby, tied flies for trout fishing.

35. I complained about it. John damaged my calculator. I received it for a birthday present.

Ⓐ I complained about John's damaging my calculator, which he gave me for a birthday present.

Ⓑ I complained that John damaged the calculator I had received for a birthday present.

Ⓒ John's damaging my calculator, which I received for a birthday present, was my complaint.

Ⓓ I complained about my calculator, which John damaged, for I received it for a birthday present.

36. He had a clear responsibility. He should report the accident to the police. The insurance company would seek a description of the accident from the police.

Ⓐ He had a clear responsibility to report the accident to the police, who would make the description available to the insurance company.

Ⓑ His responsibility was clear: He had to report the accident to the police, and then the insurance company could get a description of the accident from the police.

Ⓒ To report the accident to the police was his clear responsibility; the police would be responsible then for describing the accident to the insurance company.

Ⓓ He had a clear responsibility to report the accident to the insurance company, which would describe it to the police.

PLEASE GO ON TO THE NEXT PAGE

PART E
INSTRUCTIONS

The last two exercises in the book ask you to do some writing. Each exercise gives you instructions on what to write about. You will write one essay and one letter, and address an envelope.

Read the instructions and write your essay, letter, and envelope in the spaces provided.

PLEASE GO ON TO THE NEXT PAGE

37. Essay

When Mrs. Smith's garage sale ended, there were still some items left: clothing, china, crystal, toys, and the like—amounting to a total of $100 according to the prices listed on the tags. She wants Mr. Dealer to take this entire stock for $200, a price which includes the five old tables on which she had displayed her goods. Mr. Dealer, who buys and sells antiques, immediately accepts. He has recognized that three of the five tables are valuable antiques, each of which he can easily sell for at least $300.

Should Mr. Dealer tell Mrs. Smith what the value of the tables is? Or is he simply being a good businessman?

Your essay is to defend or attack Mr. Dealer's behavior in this transaction. Your essay will be evaluated on how thoroughly you explore this ethical problem as well as on the organization and compositional skill your paper shows. Space is provided below and on the next two pages.

PLEASE GO ON TO THE NEXT PAGE

PLEASE GO ON TO THE NEXT PAGE

PLEASE GO ON TO THE NEXT PAGE

38. Letter

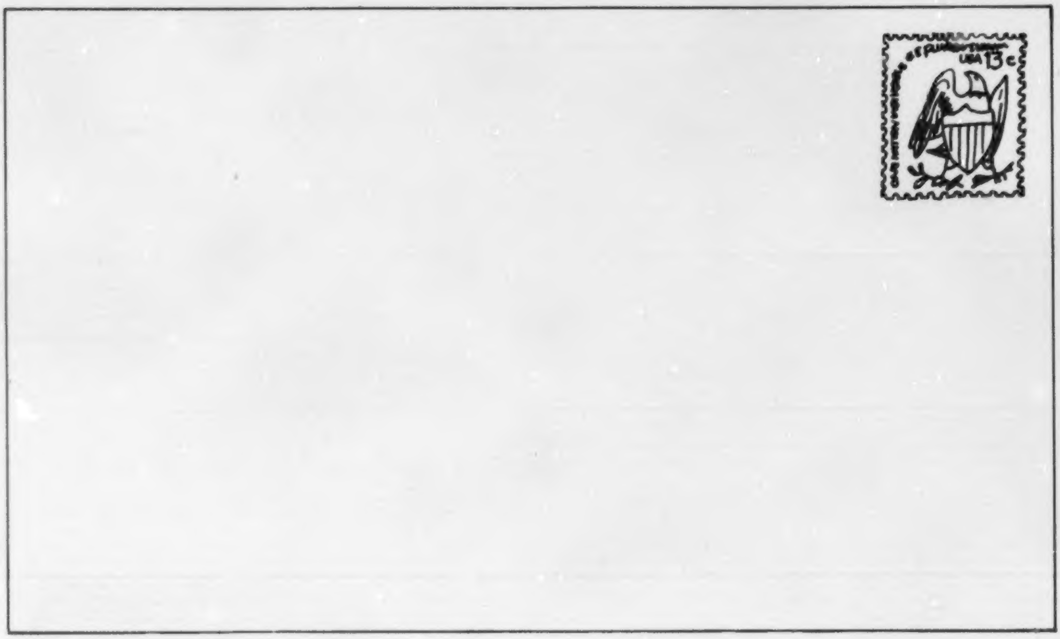
The senior class of Mark Twain High School in Selma, Ohio, has voted to give a plaque to the senior who best represents the school's spirit of academic achievement. The class officers have set forth the characteristics to be incorporated in the award: dedication, scholarship, imagination and clear thinking. Chris Kelly, the class president, has the job of writing to a company that manufactures and sells trophies, plaques, and school rings to obtain cost estimates for a plaque embodying these characteristics. Write for these estimates as if you were Chris to:

School Trophies, Inc.
14 Grant Avenue
Camden, Ohio 41700

Chris lives at 126 North Avenue, Smalltown, Ohio 43210.

A picture of an envelope has been provided. Please address this envelope for sending the letter and write the letter on the paper provided on the next two pages. You may only need one page, but two pages are provided if you need them.

ENVELOPE



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PAPER

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PAPER

THE END

For more information, contact:

Ohio Department of Education
Division of Planning and Evaluation
65 South Front Street, Room 804
Columbus, Ohio 43215

Activities which are the subject of this report were supported by the Ohio General Assembly through Special Purpose Account 420 and by the U.S. Office of Education, Department of Health, Education and Welfare. The opinions expressed herein do not necessarily reflect the position or policy of the U.S. Office of Education and no official endorsement by the U.S. Office of Education should be inferred.